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Air Emissions and Impacts

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BURRARD THERMAL GENERATING PLANT
AIR EMISSIONS AND IMPACTS

Report No. ESS-39 April 1982

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PREPARED BY

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SECTION 1.0 - INTRODUCTION

In 1979, B.C. Hydro began a program of study to provide validated technical information concerning the Burrard Thermal Generating Plant (BTGP) emissions to the atmosphere and their effect on local air quality. The program included:

1. measurement of boiler stack emissions,
2. the use of tracer gas techniques and examination of the GVRD Air Quality Monitoring System records to study where the emissions go and their effects on ambient (ground level) contaminant levels,
3. the use of computer simulation techniques to study the dispersion of emissions from the plant.

This report summarizes the air quality data gathered during the field tracer studies as well as during all BTGP operational periods since 1978. The tracer test periods were chosen to examine the highest expected air quality impacts while data from other BTGP operational periods are presented to depict air quality conditions over a cross section of yearly meteorological events.

The studies were carried out by B.C. Hydro with the assistance and co-operation of several government agencies and consulting firms. The Atmospheric Environment Service provided site-specific weather forecasting and assistance with meteorological data collection. The GVRD provided air quality and surface meteorology data from their established monitoring network. Consulting firms included North American Weather Consultants, Envirocon Ltd., Form and Substance and MEP Co.

SECTION 2.0 - THE PLANT AND ITS HISTORY

The Burrard Thermal Generating Plant (BTGP) is an electrical generating facility owned and operated by B.C. Hydro since 1962 and from 1958 to 1962 by the B.C. Electric Company. It is located on the north shore of Burrard Inlet next to the Ioco refinery near Port Moody, about 17.5 km east of Vancouver (Fig. 2-1). The plant sits at the base of a hill and at the eastern entrance of a narrow channel which is bounded by high terrain to the north and south. The plant is in a sheltered location with a ridge of 240 m to 270 m within 0.5 km to the northwest, Burnaby Mountain (358 m) 3 km to the south and southwest, and much higher terrain to the north through east within 5 km (Fig. 2-2).

The B.C. Electric Company initiated construction of the plant in 1958. This was the first major thermal electricity generating plant built in British Columbia. The six units were commissioned, one at a time, in December 1961, November 1962, April 1965, August 1967, October 1968 and April 1975.

The six boiler-turbine-generator units have a total nameplate capacity of 912.5 MW of electricity (1 Megawatt (MW) = 1 000 kilowatts), which represents about 10.3 percent of B.C. Hydro's total generating capacity. Power is generated from fuel burned in boilers which produce high pressure steam to drive turbines, which in turn are coupled to generators. Combustion gases are released to the atmosphere through six identical stacks 48.8 m high and 4.3 m in diameter. Full load generating capacity of the powerplant would be sufficient to supply the electrical requirements of over 600 000 residential customers. The plant was designed to operate on either natural gas or oil fuel, or mixtures of both, but since 1978 it has been operated only on natural gas and then only intermittently.

The role of the plant in the B.C. Hydro system is to provide backup generating capacity when water levels are low in B.C. Hydro reservoirs, to act as an emergency standby facility and to provide electricity if major new projects are delayed.

The plant has the capacity to generate about 5 520 GW.h (1 Gigawatt hour (GW.h) = 1 000 000 kilowatt hours), annually using all six units at or near their rated capacity if a realistic annual capacity factor of 70 percent is assumed. (Capacity factor is the ratio of the energy actually delivered by a generating source over a certain period of time to the maximum energy which could be delivered if the source is operating continuously at maximum continuous rating). However the plant has operated intermittently to meet system requirements and over the 20-year life of the plant the annual electrical production has ranged from virtually nil to a maximum of about 3 150 GW.h per year (Fig. 2-3). It is anticipated that this type of operation will be the practice in future. Examination of the operating records shows that the typical maximum load for the plant has corresponded to the generation from four units at or near their full load rating. Table 2-1 summarizes recent operational running undertaken by the Burrard Thermal Plant using natural gas as fuel.

2.1 WASTE MANAGEMENT BRANCH OBJECTIVES

Pollution Control Objectives for miscellaneous industries, including stationary industrial combustion sources, were the subject of public inquiry in 1972 under the Pollution Control Act and issued in 1975 by the Chairman of the Pollution Control Board (PCB). The report issued is entitled "Pollution Control Objectives for Food-processing, Agriculturally Oriented, and Other Miscellaneous Industries of British Columbia". The objectives in that report are stated to be the policy of the Pollution Control Board for pollution control in British Columbia's food-processing agriculturally orientated, and other miscellaneous industries. Three levels - Level A, Level B and Level C - were established. All new or proposed discharges should meet Level A objectives, while all existing discharges should meet Level C immediately or within the shortest possible time technically feasible to do so. Existing discharges were to be upgraded to interim Level B, and ultimately to Level A, by a staged program of improvement as directed by the Director of the Waste Management Branch (WMB).

Table 2-2 describes the emission guidelines applicable to the operation of the Burrard Thermal Plant. The WMB has issued general objectives (Table 2-2a) for pollutants applicable to a variety of miscellaneous industries. More specific objectives for emissions from Stationary Industrial Combustion Sources have been issued for natural gas combustion (Table 2-2b).

The regulatory process requires that each discharge point be identified and receive permit approval. Therefore maximum emissions from each of the six units will be specified on the permit application since any one unit could be called on to operate at full load. The Waste Management Act issued in 1982, indicates that B.C. Hydro is required to file permit applications for air emissions from the Burrard Plant with the Greater Vancouver Regional District.

2.2 POWERPLANT EMISSION CHARACTERISTICS

Natural gas is well known as the cleanest burning fossil fuel. The products of combustion of natural gas are water vapour (H_2O), carbon dioxide (CO_2) and small quantities of nitrogen oxides (NO_x). Trace amounts of particulate, hydrocarbon (HC) and sulphur dioxide (SO_2) are also released to the atmosphere from the combustion process. Typical flue gas characteristics for the BTGP boilers are shown in Table 2-3. Mass emission estimates for the contaminants of interest are described in Table 2-4.

Nitrogen oxide concentrations were measured using the recommended WMB method in the exhaust gases of all six units with the boilers operating at full load.[1,2] Volumetric flow rate and moisture determinations were carried out on Unit 6 since this is the only unit with access to the stack for flow measurements. Natural gas flow rates to each boiler were measured at full load and found to be equivalent. Based on the similarity between fuel type and fuel consumption, the stack flow rates for Units 1 to 5 are assumed to be equivalent to the average Unit 6 flow rate (corrected to the same excess oxygen). Nitrogen oxide emissions (expressed as NO_2) released to the atmosphere from Units 1 to 6 are below the PCB Level A objective of 200 lb/10^6 scf. Appendix A describes the test results in detail.

Particulate emission tests were performed on Unit 6 in September 1979 while the unit was being operated at full load on natural gas. The results demonstrated that particulate emissions ranged from 2 lb/h to 16 lb/h. The measured average stack gas particulate concentration of 0.001 grain per dry standard cubic foot (gr/scf) is one hundredth of the Level A emission objective of 0.10 gr/scf. Units 1 to 5 are also expected to have low levels of particulate emissions since they are similarly fueled with natural gas.

Sulphur dioxide emissions are estimated to be 2.1 lb/h (0.8 ppm) for each unit operating at full load burning 1.45×10^6 ft^3/h of natural gas. These estimates have been based on a normal sulphur level in natural gas of approximately 12 mg/m^3 (0.5 gr/100 scf). Sulphur in natural gas can range from approximately 5 mg/m^3 to 50 mg/m^3. Sulphur dioxide emissions from BTGP at 0.8 ppm are far lower than the Level A emission of 300 ppm. Similarly BTGP hydrocarbon emissions at 2 ppm are less than 2 percent of the Level A objective of 150 ppm.

SECTION 3.0 - FACTORS AFFECTING AMBIENT CONCENTRATIONS OF NITROGEN DIOXIDE

Nitrogen oxides (NO_x) emitted into the lower atmosphere from combustion sources are primarily in the form of nitric oxide (NO), with nitrogen dioxide (NO_2) typically accounting for less than 10 percent for most man-made emissions. While being transported and dispersed in the lower atmosphere, NO is oxidized to NO_2 in a number of chemical reactions that occur in the presence of sunlight, reactive hydrocarbons (HC), and/or ozone (O_3). NO_2 is either converted back to NO through photolytic action or further converted into other nitrogenous compounds which are continuously removed from the atmosphere by dry and wet deposition processes.

Based on the brief account of the atmospheric life cycle for NO_2 presented above, the concentration of NO_2 at any given location and time in an airshed is the net result of the following three broadly defined processes that proceed simultaneously.

1. Emissions of NO_2 precursors that is compounds (NO_x and HC) which chemically react in the atmosphere to form NO_2,

2. Physical processes of atmospheric transport, dispersion, and removal; and

3. Chemical process of transformation.

Precursor emissions in an airshed depend on the source characteristics and their geographic distribution. Emissions are also affected by meteorological factors, for example, low temperatures cause more emissions as a result of increased space heating requirements.

Physical and chemical processes are primarily influenced by meteorological and other atmospheric factors which include:

- Solar radiation,
- Temperature,
- Wind,
- Turbulence,
- Water vapour content and other forms of water, and
- Concentrations of other pollutants.

These factors show random as well as regular variations with time of day, season of year, geographical location and topography. The factors and inter-relationships described above indicate the extreme complexity involved in ambient NO_2 studies.

3.1 EMISSIONS OF NITROGEN DIOXIDE PRECURSORS

Although NO_2 precursors are emitted from a variety of natural and man-made sources, man-made sources are far more important in the assessment of NO_2 exposure on public health and welfare. Table 3-1 lists the Lower Mainland emission estimates[11] according to emission source category for several important classes of air pollutants. The largest of the man-made NO_x emission sources is transportation followed by stationary combustion sources. Emissions of HC, however, are dominated by transportation sources and non-combustion industrial processes. Stationary combustion sources accounted for less than 1 percent of hydrocarbon emissions.

In addition to the difference in the quantities of precursor emissions, each source category possesses a unique combination of characteristics that may influence local short-term concentrations of NO_2. Motor vehicle emissions containing well-mixed NO_x and HC precursors release pollutants at ground level for direct exposure to human and other receptors. The relatively high HC to NO_x ratio in mobile emissions favours rapid photochemical conversion of NC to NO_2. Emissions from stationary combustion sources like BTGP are released from elevated stacks and typically the HC to NO_x ratio is low compared to mobile emissions.

3.2 PHYSICAL AND CHEMICAL PROCESSES

The physical and chemical processes that affect NO_2 concentrations in the ambient air have been generally described in Section 3.0. The relationship between these processes in the Burrard Inlet area are governed mainly by the prevailing meteorological conditions, geographical location, and local topographical features. In the eastern Burrard Inlet topographic features complicate the analysis of the local meteorology. Large thermal gradients, between land and sea, and above the surface affect the dispersive capability of the local air volume under certain conditions.

Knowledge of the prevailing weather patterns and available ambient NO_2 data were used to identify specific periods for field studies in the Burrard Inlet area. Consideration was given to meteorological conditions which would produce poor dispersion of the BTGP plume, and the ambient record of NO_2 concentrations. Examination of the air quality data for NO_2 provides an indication of the degree to which the combined physical and chemical factors have actually affected NO_2 concentrations in the past. Section 4.3 will further discuss the statistical evaluation of GVRD's historical ambient NO_2 data.

Four periods were identified for analysis:

1. In the fall, when pressure gradients normally weaken due to the gradual collapse of the Pacific cell of high pressure, episodes of air stagnation can develop. In this situation winds at the surface and aloft are very light while clear skies and the seasonal reduction in solar radiation allows the formation of surface based radiation inversions. No meteorological statistics on the frequency, duration, or intensity of these episodes are available, but stagnation may range from a nearly continuous episode of variable intensity from late August to early October to essentially no episodes.

GVRD data shows that from 1978 to 1981 the fall months experienced an average of 12 days per year when 1-hour concentrations were recorded above a level which is one-half of the ambient standard (200 $\mu g/m^3$). While this is not a large number of occurrences, the fall period has historically produced the maximum and highest number of elevated NO_2 readings.

2. A wintertime synoptic regime which can produce higher than normal pollution levels, although not nearly to the levels of those occurring in fall stagnation, is the outbreak of cold dry Arctic air onto the B.C. coast. Examination of meteorological data from 1952 to 1978 shows that Arctic air covered the lower mainland approximately 25 percent of days in December and January decreasing to less than 10 percent by the end of February. The Arctic air undercuts the residual Pacific air along the coast establishing an intense surface inversion. Depending on the magnitude of the Arctic dome the inversion may be shallow or deep. Initially winds may be strong to gale force giving excellent longitudinal dispersion from point sources. Elevated concentrations of nitric oxide may result in this situation since winds are constant in direction for an extended period of time with little horizontal dispersion, while plume rise and vertical dispersion are very limited due to the strong wind and inversion.

   If, following the initial outbreak, the Arctic air covers all of southwestern B.C., including Vancouver Island, winds will abate and since the air is extremely dry the clear skies will allow a radiation inversion to intensify the deep Arctic inversion which is already present. During this period the light easterly winds tends to meander much more than in the initial phase of the outbreak.

   The final phase of the Arctic outbreak situation occurs as the Pacific storm track moves northward spreading mild moist air aloft over the Arctic inversion. This can result in brief fumigation on an area-wide basis from previously trapped emissions, however increasing winds accompanied by snow and ultimately rain will scour out the area and force the Arctic air back to the B.C. interior. The weather regime then reverts to the normal pattern of migrating Pacific storms.

The GVRD data for the winter months show that there were average of 6 days per year when 1-hour NO_2 concentrations above 200 µg/m³ (105 ppb) were recorded. Most of these occasions were in the month of January.

3. Poor dispersion can occur in the spring and summer months if the semi-permanent Pacific high pressure centre is located well off the B.C. coast such that the pressure gradient is weak over the lower mainland. In this case the gradient in temperature between the cold sea water and that of the land under strong solar insolation will produce a sea breeze inversion in the daytime. At night under clear skies strong radiational cooling of the land surface will produce the opposite temperature gradient between land and sea resulting in a land breeze and radiation inversion. If the pressure gradient remains static for a number of days the diurnal oscillation of the land breeze and sea breeze can have a potential for pollutant build-up. Studies[4] have shown that between 20 and 40 land breeze - sea breeze episodes, lasting 3 to 11 days, will occur each year and normally these conditions occur on 15 to 19 days in July.

   Ambient records of NO_2 for the spring and summer months (March to August) show that there were on average 4 days per year when 1-hour NO_2 concentrations above 200 µg/m³ (105 ppb) were recorded.

   Even though the occurrence of land breeze - sea breeze episodes are high the overall effect of the physical and chemical processes reduce the importance of this condition with respect to NO_2 formation.

4. The fourth meteorological situation which can produce high ground level concentrations of nitric oxide is morning fumigation. During a clear, still, night a radiation inversion will develop which will trap emitted pollutants aloft. With increasing solar insolation in the morning, ground warming will produce thermal eddies which, when they extend up to the pollutant layer, will mix the stack gases to the surface. Elevated NO concentrations may last for a few minutes to an hour and occur simultaneously over a wide area.

   Morning fumigation is not likely to be an important factor in the generation of high NO_2 concentrations. The lack of photochemical activity during night-time hours would prevent significant NO_2 from being formed. The GVRD data shows that maximum daily NO_2 concentrations typically occur in the early afternoon, not in the morning.

SECTION 4.0 - EXISTING AIR QUALITY

4.1 AMBIENT AIR QUALITY OBJECTIVES

Guidelines for the control of emissions from natural gas fired boilers are contained in the Provincial Waste Management Branch, Pollution Control Objectives for Food Processing, Agriculturally Oriented and other Miscellaneous Industries of British Columbia as previously discussed in Section 2.0. However, the provincial guideline does not contain limits for ambient ground level concentrations of nitrogen dioxide.

Regarding ambient air quality, the Federal Air Quality Objectives (maximum acceptable) for NO_2 for 1 hour, 24-hour and yearly averaging periods are 400, 200 and 100 $\mu g/m^3$ respectively. While these guidelines have no formal provincial jurisdiction, they serve as a guide to provincial regulatory agencies. The Federal air quality objectives were established as a guide in developing programs to reduce the damaging effects of air pollution. These national objectives:

- assist in establishing priorities for reducing contaminant levels and the extent of pollution control needed,
- provide a uniform yardstick for assessing air quality in all parts of Canada,
- indicate the need for and extent of monitoring programs.

The maximum acceptable level is intended to provide adequate protection against effects on soil, water, vegetation, materials, animals, visibility, personal comfort and well-being. The maximum desirable level defines the long-term goal for air quality and provides a basis for an anti-degradation policy in unpolluted areas of the country. The maximum tolerable level denotes concentrations of air contaminants that require abatement without delay to avoid further deterioration of conditions to an air quality that endangers the prevailing Canadian lifestyle or, ultimately, to an air quality that poses a substantial risk to public health. Both the provincial and federal guidelines have been used in this report for comparative purposes. Table 4-1 lists the federal and B.C. guidelines for Air Quality.

4.2 GREATER VANCOUVER REGIONAL DISTRICT AIR QUALITY MONITORING SYSTEM

The Greater Vancouver Regional District (GVRD) air quality monitoring network consists of 38 stations, 12 of which monitor gaseous pollutants on a continuous basis. Eight of the 12 stations are located adjacent to the eastern end of the Burrard Inlet (Fig. 2-2). The network was installed progressively since February 1977 with the twelfth station being commissioned in 1982. Recent additions to the network include the Eagle Ridge Hospital site in Port Moody and Burnaby Mountain near Simon Fraser University.

The air quality network produces real time 5-minute and hourly averages of ambient air concentrations of nitrogen dioxide, sulphur dioxide, ozone and carbon monoxide as well as wind speed and direction. These data are available to B.C. Hydro on a continuous basis through a telephone link with GVRD's main computer. Suspended particulates are measured every sixth day using a high volume sampler.

GVRD's 1980 ambient air quality monitoring data summary (Table 4-2) which is typical of the data available in Reference 3, shows that nitrogen dioxide concentrations are well below the federal air quality objectives while suspended particulates and ozone (oxidants) are shown to occasionally exceed the objectives.

An analysis of the air quality NO_2 data recorded by the GVRD network from 1978 to 1981 was carried out[7]. Fig. 4-1 depicts the range of frequency distributions for six GVRD stations in the vicinity of the

Burrard Inlet. From these curves it can be seen that no more than 1.5 percent of the hourly data collected (which totals approximately 20 000 readings per station) exceeded 140 μg/m³ (75 ppb) and no more than 0.3 percent exceeded 200 μg/m³ (105 ppb). Table 4-3 and 4-4 further show the locations and number of occasions when these occurred. These concentrations are 50 percent and 36 percent respectively of the Federal 1-hour maximum acceptable guideline. Only 1 hour of data greater than the guideline level was recorded in the 4-year period. The fall and winter months have accounted for 73 percent and 13 percent of the NO_2 concentrations above 200 μg/m³ (105 ppb) respectively.

Of the 1-hour NO_2 levels greater than 200 μg/m³ that have occurred, approximately 90 percent lasted less than 4 hours with peak NO_2 concentrations occurring predominantly between 1200 and 1400 hours.

Environment Canada have reported[10] annual air quality indices for 34 air monitoring stations (Table 4-5) in the National Air Pollution Surveillance Network (NAPS). Five of the GVRD stations including Rocky Point Park are part of this network. An annual air quality index reduces complex and voluminous air monitoring data for several air contaminants to a single number which can be used to give some indication of overall air quality. The index calculated for various cities across Canada can be described as "severe", in that it is based upon 98th percentile concentrations and the largest index is computed, rather than on average conditions. Air quality at Rocky Point Park in Port Moody was described as fair at an index of 32 in 1979.

SECTION 5.0 - ASSESSMENT OF BTGP AIR QUALITY IMPACTS

While it has been observed that maximum emissions of contaminants from the Burrard Thermal Generating Plant are below Level A thresholds, there is, of course, interest as to the effect these gases have on ambient air quality. Two broad approaches have been used to evaluate ambient air quality:

1. The existing ambient measurements recorded by GVRD during periods of plant operation have been reviewed for significant levels of nitrogen dioxide.

2. Tracer gas testing was carried out under poor dispersion periods to evaluate the "worst case" effect of the powerplant's emissions.

The tracer tests were also useful in examining plume impingement locations so that the ability of the existing air quality network to measure potential impacts could be evaluated.

5.1 MEASURED AMBIENT NO_2 DURING PERIODS OF POWERPLANT OPERATION

The inter-related factors that effect the formation of NO_2 from precursors emitted by BTGP and other industries located around the Burrard Inlet are complex and variable hence only a general evaluation of the available ambient NO_2 data is possible (Appendix B). That is, if there are no significant exceedances of the established guidelines with the plant in operation, then the plant's incremental contribution to ambient NO_2 levels met the most restrictive criteria for the period of record evaluated. Table 5-1 summarizes these operational periods since 1978 with corresponding NO_2 measurements at GVRD monitoring sites. Following is a discussion of several of these operational periods.

Since BTGP has been used infrequently a program was planned to gather ambient NO_2 data during operational and non-operational periods. During the period 15 September to 31 October 1980 BTGP was operated on alternate weeks in an effort to detect a change in ambient NO_2 levels monitored by GVRD. It was found that the contribution of NO_2 with one to three units in operation was not measurable above background concentrations (Appendix B2). The fact that high readings occurred mostly during the afternoon or in early evening on weekdays and not once at night would suggest that automobiles are a large contributor to NO_2 with concentrations controlled mainly by meteorological conditions. Significant impacts on 2 October at all six GVRD stations in the study area, when BTGP was not operating, further indicates that meteorological factors are a prime influence on NO_2 concentrations.

Only one occurrence of an NO_2 1-hour value greater than the NO_2 guideline (0.21 ppm or 400 $\mu g/m^3$) has been recorded. Station T7 on 12 October 1979 recorded a concentration of 0.25 ppm. Appendix B3 examines the data around this event more fully.

During two extensive operational periods in March and April of 1979 and 1980, with loads near 600 MW, the maximum 1-hour and daily NO_2 concentrations remained below 71 percent of the federal guideline value.

Peak concentrations of NO_2 recorded by the GVRD network are not primarily the result of fluctuations in NO_x emissions but are a function of the meteorology on the occasion. Since ambient NO_2 guidelines have only been exceeded for 1 hour with the powerplant in operation, further operation is not expected to result in exceedance of the guideline. This conclusion is especially valid during the spring months where extensive BTGP operation has occurred under near full load conditions.

5.2 STUDIES DURING PERIODS OF POOR DISPERSION

As described in Section 3.2, four recognized meteorological conditions result in poor dispersion in the lower Mainland area. Of these four, the fall stagnation episode was of greatest interest since the GVRD air quality monitoring network has historically recorded maximum NO_2 levels during this season. The September 1979, February 1980, September 1980 and October 1980 tracer studies covered fall stagnation, arctic outbreak, and morning fumigation conditions. Tracer tests were planned during the summer of 1980 to study a land breeze - sea breeze situation, however, a suitable episode did not develop. The land breeze - sea breeze situation was subsequently evaluated using computer simulation techniques (Section 6.3).

Known concentrations of the inert, harmless tracer gas, sulphur hexafluoride (SF_6) which does not occur naturally, were metered into the Burrard Thermal Generating Plant stack during the full load operation of Unit 6. An instrumented helicopter was used to track the location of the plume during the sampling program. Aerial measurements of NO, NO_x, SF_6 concentration and temperature were collected. Data from the helicopter was used primarily to locate the ground samplers at locations of expected maximum impact. Tracer gas ground sampling locations were also chosen near population centres and near GVRD air quality monitoring sites. These measurements were used to calculate the amount of NO_x traceable to BTGP at the sample locations. Further, the amount of NO_x from BTGP under multi-unit operation was estimated (Appendix C1).

In conjunction with three of the tracer gas studies[5] detailed meteorological measurements were made using equipment such as free and tethered instrument balloons. These measurements provided information on wind speed, wind direction and temperatures at various elevations. This data together with the meteorological data normally available was used to characterize the episode being evaluated and was also used in a numerical computer model to simulate the dispersion of the gaseous emissions from the powerplant (Section 6.0).

Once emitted, NO_x from BTGP (primarily NO) is transported and dispersed within the atmosphere and undergoes chemical oxidation to form NO_2 and subsequently other oxides. The concentrations of NO_2 found at receptor sites are hence a function of both the dilution rate of emissions in the atmosphere, and the rate at which NO is converted to NO_2.

Measurements of NO to NO_2 conversion were conducted and reported by North American Weather Consultants (NAWC)[6] during several of the gas tracer studies. Since tracer tests were performed during the daylight hours when conversion is at a maximum, the rates determined are representative of maximum daily values. However, the rate of conversion is not adequately predictable to allow meaningful calculations of NO_2 concentrations which could be verified by measurement. For the purpose of estimating the conversion of NO_x emitted from BTGP to NO_2 (Table 5-2), a conservative range of conversion rates from 40 to 90 percent has been used. Predictions based on the higher conversion rate (90 percent) are likely overestimates of ambient NO_2 concentrations. This is supported by the measurement of NO_2/NO_x in the plume[6] which showed that the fraction converted decreased as NO_x concentrations were increased.

The maximum tracer gas concentration recorded during the various field studies was 5.38 $\mu g/m^3$. This concentration was recorded on 25 September 1979 at a point 3 km west of the powerplant (I17, J8). If the powerplant had been operating at a normal maximum load of 600 MW it is predicted that BTGPs incremental NO_x concentration would have been 560 $\mu g/m^3$ (Table 5-2). However, the hour before and the hour after had predicted concentrations of 160 $\mu g/m^3$ and 350 $\mu g/m^3$ respectively indicating that the high concentration was a short-term peak. Apart from this one isolated episode other maximum NO_x concentrations ranged up to 270 $\mu g/m^3$ during the 22 days of tracer measurements. Corresponding NO_2 impacts resulting from BTGP are predicted to be less than 250 $\mu g/m^3$.

The frequency of occurrence and magnitude of elevated NO_2 concentrations from all emission sources are important aspects of the air quality assessment. Ambient NO_2 concentrations resulting from all sources were recorded by the GVRD network during the tracer programs. Of the approximately 1200 tracer gas samples collected, 417 samples were obtained in conjunction with simultaneous background NO_2 measurements. These results represent occasions when the BTGP plume was expected to be present at the GVRD stations and when ambient NO_2 concentrations were highest (at midday during poor dispersion conditions).

The highest combined NO_2 concentrations predicted (background plus predicted contribution from BTGP operating at 600 MW) for each day studied are shown in Table 5-3. Background levels of NO_2 ranged from 21 $\mu g/m^3$ to a maximum of 300 $\mu g/m^3$ (column 3). Statistically ambient NO_2 concentrations in the period from 1978 to 1981 were below 200 $\mu g/m^3$ (0.105 ppm) 99.7 percent of the time. All but two of the days studied had maximum NO_2 levels below 200 $\mu g/m^3$. On the study day (September 25, 1979) when the highest background NO_2 was measured the effect of operating Burrard at its normal maximum load of 600 MW would have produced a total station NO_2 concentration of approximately 400 $\mu g/m^3$.

The study results indicate that under particular infrequent and extremely poor dispersive conditions, NO_2 levels from all sources including the Burrard plant might exceed the 1-hour federal objective however these exceedances would be limited to a few hours on severe stagnation days which can occur during the months of September and October.

As discussed in Section 3.2, the likelihood of fall stagnation episodes, which produce high NO_2 readings, is 12 days per year, although most of these days would not produce NO_2 concentrations near the federal guideline level as shown by the wide variation in tracer test data.

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SECTION 6.0 - COMPUTER MODELLING OF POWERPLANT EMISSIONS

Computer modelling of pollutant dispersion processes in the atmosphere has been used extensively in Canada and the United States to evaluate air quality impacts from proposed and existing emission sources. Models enable the analyst to calculate ambient concentrations at large numbers of sites under various conditions of interest. Thus the problem of obtaining sufficient field measurements to define a given situation is reduced.

The model chosen to supplement the Burrard Thermal Generating Plant evaluation is called IMPACT, a numerical model which has been used for air quality evaluations in complex terrain and meteorology[8]. IMPACT has been used by consulting companies, industrial specialists, local, state and federal agencies as well as universities for complex terrain assessments[9].

Air quality field measurements are a preferred method of assessment in that the measurements inherently have more certainty than the results obtained by computer simulation. Never the less computer modelling is a useful tool, and has been used in this assessment to indicate areas of plume impingement and to provide the capability for assessment in areas where field data have not or cannot be gathered.

This report will discuss the ability of the model to simulate plume dispersion and then make use of the modelled assessment to supplement the measured field results. In latter sections the model has been used in a predictive sense to evaluate likely impacts during a land breeze - sea breeze condition and in areas further away from the powerplant.

6.1 IMPACTS' PREDICTIVE ABILITY

A description of IMPACT is contained in reference 8. The end product of the computer model IMPACT are grid displays of the hour averaged tracer gas concentrations for each hour of a simulation. The concentrations represent the average concentration in a grid cell, typically a box 500 m long, 500 m wide and 50 m deep. Fig. 2-2 shows the orientation of the grid on the study area.

Comparison of the averaged tracer gas concentration as calculated by IMPACT to that measured by a sampler in the same grid cell for a given hour would be a reasonable procedure if wind direction and speed did not vary. However wind typically varies in both direction and speed particularly during light wind conditions. Thus it is more realistic to compare sampler values with a range of values calculated by IMPACT (i.e., does a sampler value fall between the highest and lowest modelled values within 0.5 km of the sampler location and within 1 hour of the sampler time). Based on the above assessment it was found that in 44 percent of the stagnation cases and in 62 percent of the arctic outbreak cases, the modelled and measured values were in agreement (Table 6-1).

6.2 MODEL PREDICTIONS

As a result of the agreement between measured and modelled values further evaluation of the model results can be carried out. While the model results have not been used to predict ground-level NO_2 concentrations, useful comparisons have been made to show order of magnitude agreement between measured and modelled tracer gas concentrations. The model results have also been used to provide additional information on locations of plume impingement.

Comparing daily maximum measured and modelled values of NO_x (Fig. 6-1) it can be seen that the values are comparable in magnitude. This general agreement indicates that the measured concentrations detected during the study of poor dispersive periods are representative of the maximum expected concentrations for the overall study area. Maximum concentrations in excess of those monitored are not expected to occur at locations where samples were not taken.

The locations of maximum impacts determined by modelling are generally found in the higher terrain areas downwind from the powerplant. In both the stagnation and arctic outbreak cases greater impacts were seen within 2 km, north and west of the powerplant. Model predictions close to the powerplant have a high degree of uncertainty when large grid spacings are used. For this reason predictions within the coordinates I19-24, J9-12 have not been used in Fig. 6-1. Model results near the powerplant on high terrain were determined to be excessively high, ground level tracer measurements and helicopter plume tracking did not support the model predictions in this area. The modelled stagnation periods also predicted impacts east of BTGP along the ridge of high terrain from Anmore to Eagle Ridge (including the Barber Street Subdivision). During arctic outbreak periods elevated impacts on and around Burnaby Mountain (Appendix D1) were predicted. The locations of maximum tracer gas measurements also identified the above locations as areas where the BTGP plume would impact. The GVRD air quality monitoring stations located at Anmore (T7), the Eagle Ridge hospital site (T15) and Burnaby Mountain (T14) are well situated to record BTGP impacts during poor dispersive periods.

6.3 MODEL EVALUATION OF LAND BREEZE - SEA BREEZE CONDITIONS

As stated in Section 3.2, a meteorological situation which could produce elevated impacts of emissions from Burrard Thermal Generating Plant is the land breeze - sea breeze episode. In this situation, emissions are carried westward from the plant in the early morning hours by the land breeze which drains down the mountain slopes and out through Burrard Inlet. Several hours after sunrise solar radiation warms the land surfaces sufficiently to shift the wind flow to the opposite direction. Thus, emissions which initially were carried westward from the plant are carried back to the plant, and beyond, by the returning sea breeze. These emissions will be added to those currently being emitted.

Since field tracer data was not obtained during a land breeze - sea breeze condition, and the numerical model IMPACT has shown that it can, reasonably, simulate impacts of emissions from BTGP, given adequate meteorological and plant emission data sets, it was decided to simulate a gas tracer study with the model during a typical land breeze - sea breeze day. Review of meteorological data for the Lower Mainland of B.C. measured by the Atmospheric Environment Service, and data recorded by the GVRD air quality network, showed that 14 July 1979 was typical.

For the simulation, the same plant and stack parameters and mean SF_6 emission rate were used as for the February 1980 gas tracer study. While surface wind data from the ten anemometers within the model grid area were real hourly measurements, the three vertical profiles of wind and temperature were simulated, using data from the Atmospheric Environment Service. Detailed results of the computer simulation are reported in Appendix D2.

The results show that the land breeze carried the SF_6 to the southwest until the hour 1000-1100 PST, following which the area of maximum values shifted gradually to the east, being carried by the sea breeze. From the displays, areas of impact were Burnaby Mountain in the morning and the Barber Street Subdivision in the afternoon. The uninhabited high terrain in the vicinity of BTGP was also impacted.

The predicted impacts on Burnaby Mountain were similar in magnitude to those modelled for the arctic outbreak condition where predicted NO_x concentrations were less than 150 $\mu g/m^3$. Predicted impacts in the vicinity of the Barber Street Subdivision were similar in magnitude to the simulated concentrations determined under stagnation conditions where NO_x concentrations were predicted to be in the 200 to 300 $\mu g/m^3$ range. The area on high terrain around the powerplant was predicted to have concentrations similar to the arctic outbreak predictions (approximately 600 μg/m³ of NO_x) and approximately one-half of the maximum concentration predicted for the stagnation case. Again it should be emphasized that the high model predictions on steep terrain within 2 km of the powerplant were not verified by tracer gas measurements. A relative comparison of the land breeze - sea breeze assessment indicates that the location and size of NO_x impacts are similar to the other cases studied. A review of the GVRD NO_2 data (i.e. background concentrations without BTGP) for the months of June and July indicate that background levels are less than those recorded for the September, October period[3]. Based on this assessment the land breeze - sea breeze episode will result in lower total NO_2 concentrations than the stagnation periods evaluated.

6.4 MODEL EVALUATION OF BTGP IMPACTS OUTSIDE OF BURRARD INLET

Normally the wind flow in Burrard Inlet is either easterly or westerly, consistent with the grid shown in Fig. 2-2. On 15 February 1980, winds persisted from the north and northeasterly direction such that BTGP emissions were carried across the grid rather than longitudinally. To evaluate the possibility of significant impacts outside the study area an expanded grid was used (Appendix D3). Several hourly maximum concentrations were predicted outside the original grid, however the maximum predicted hourly NO_x concentration was only 110 μg/m³ (Appendix D3).

SECTION 7.0 - SUMMARY AND CONCLUSIONS

- The Burrard Thermal Generating Plant is operated with natural gas as fuel and the only contaminant of significance which is emitted is oxides of nitrogen (NO_x). Emissions of oxides of nitrogen (NO_x) from the Burrard Plant are less than the most stringent objective set by the B.C. Waste Management Branch.

- Various nitrogen oxides are present in the atmosphere from both natural and man-made sources. Some of the oxides of nitrogen (NO_x) emitted undergo change in the atmosphere to nitrogen dioxide (NO_2). Above certain concentrations this nitrogen dioxide (NO_2) is of concern as an air pollutant and is subject to government Air Quality Objectives.

- Data collected to date indicate that over 99 percent of the time ambient concentrations of NO_2 are less than half the Air Quality Objective level of 400 $\mu g/m^3$. Under these conditions additional nitrogen dioxide (NO_2) from the Burrard Plant will not result in exceedances of the established criteria.

- The GVRD Air Quality Monitoring System has historically recorded the highest NO_2 concentrations around mid-day in fall stagnation episodes. These concentrations have typically been less than the federal objectives levels.

- The study indicates that under particular infrequent and extremely poor dispersive conditions that the ambient nitrogen dioxide (NO_2) concentration, from all sources including Burrard, might exceed the 1-hour federal objective level. These potential exceedances would be limited to a few hours on severe stagnation days which can occur during the months of September and October. The maximum levels would be well within the maximum tolerable objective level.

- The model study indicates that the measured concentrations detected during the tests are representative of the maximum concentrations expected for the entire study area.

- B.C. Hydro has installed, in conjunction with GVRD, two additional monitoring stations at Burnaby Mountain and Eagle Ridge Hospital site. These stations together with those at Anmore Elementary School and Rocky Point Park in Port Moody are well situated to record impacts from the operation of the Burrard Plant.

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GLOSSARY OF ABBREVIATIONS AND UNITS

Abbreviations

AQMS	Air Quality Monitoring System
BTGP	Burrard Thermal Generating Plant
CH_4	methane
CO_2	carbon dioxide
deg	degrees
EPA	Environmental Protection Agency
GMS	Gordon M. Shrum
GVRD	Greater Vancouver Regional District
HC	hydrocarbon
H_2O	water vapour
IMPACT	Integrated Model of Plumes and Atmospherics in Complex Terrain
NAWC	North American Weather Consultants
NO	nitric oxide
NO_2	nitrogen dioxide
NO_x	nitrogen oxides
PCB	Pollution Control Board
PST	Pacific Standard Time
SF_6	sulfur hexaflouride
WMB	Waste Management Branch

Units

acfm	actual cubic feet per minute
BBL	barrel
C	centigrade
dscfm	dry standard cubic feet per minute @ 68°F and 29.92 in. Hg.
F	fahrenheit
fps	feet per second
ft^3/h	cubic feet per hour
gr/scf	grains per standard cubic feet
GW.h	gigawatt hours
in. Hg.	inches of mercury
kg/h	kilograms per hour
km	kilometre
km/h	kilometre per hour
kV	kilovolt
lb/h	pound per hour
lb/imp gal	pound per imperial gallon
$lb/10^6$ scf	pound per million standard cubic feet
lb/ton	pound per ton
m	metre
m^3/min	cubic metres per minute
$mg/dm^2.d$	milligrams per square decimetre per day
mg/m^3	milligram per cubic metre
$\mu g/m^3$	microgram per cubic meter @ 25°C and 760 mm Hg
mmcf	million cubic feet
MW	megawatt
MW.h	megawatt hours

Units - (Cont'd)

ppm	part per million
ppb	
scf	standard cubic foot @ 68°F and 29.92 in. Hg.
tonnes/year	metric tonnes per year

Figure 2-1

LOCATION OF BURRARD THERMAL
GENERATING PLANT

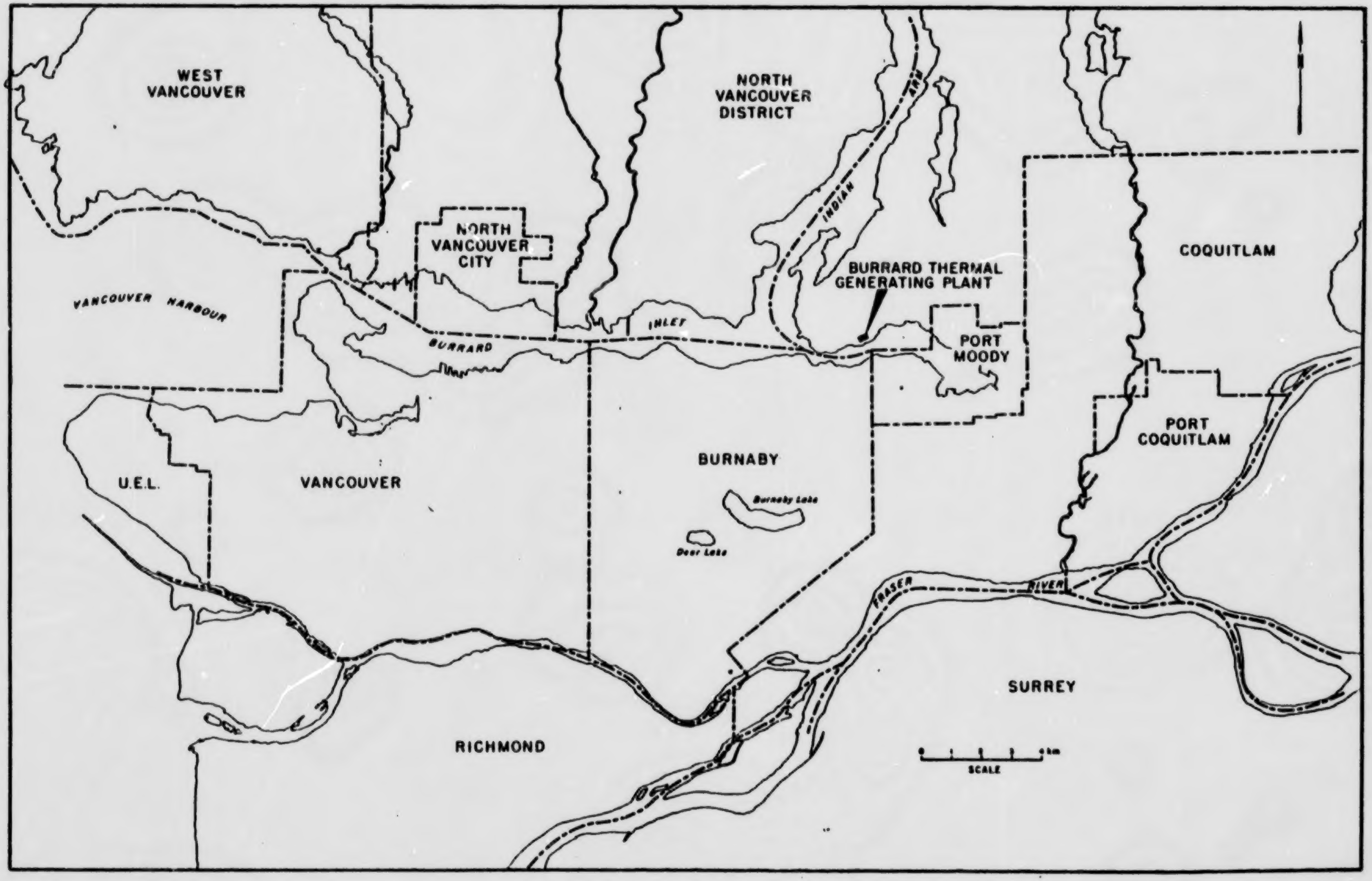

WEST VANCOUVER
NORTH VANCOUVER CITY
NORTH VANCOUVER DISTRICT
INDIAN ARM
BURRARD THERMAL GENERATING PLANT
COQUITLAM
VANCOUVER HARBOUR
BURRARD INLET
PORT MOODY
PORT COQUITLAM
U.E.L.
VANCOUVER
BURNABY
Burnaby Lake
Deer Lake
FRASER RIVER
SURREY
RICHMOND
0
km
SCALE

Figure 2-2

FEATURES OF THE BURRARD INLET STUDY AREA

LEGEND

T4 KENSINGTON PARK
T14 BURNABY MOUNTAIN
T5 CONFEDERATION PARK
T6 BEACH WORKS YARD
T7 ANMORE SCHOOL
T9 ROCKY POINT PARK
T10 PORT COQUITLAM WORKS YARD
T15 EAGLE RIDGE

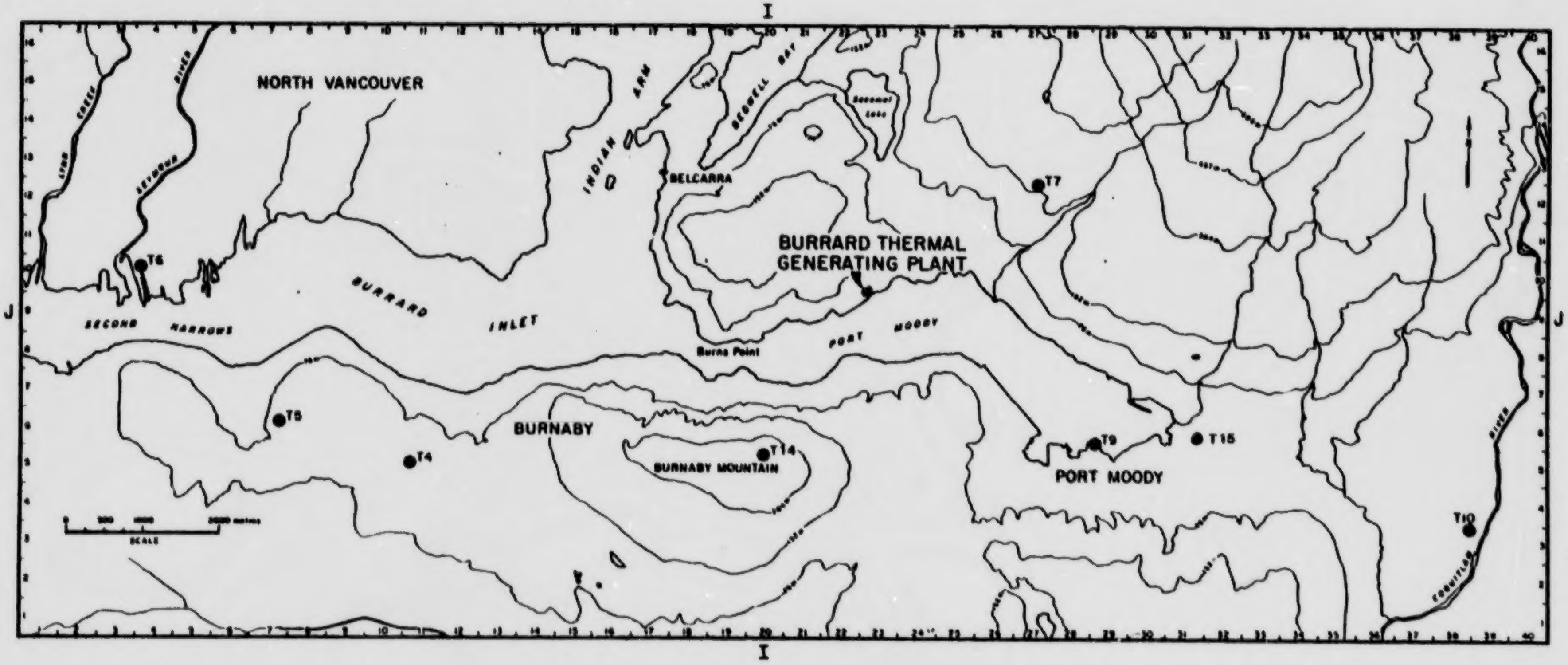
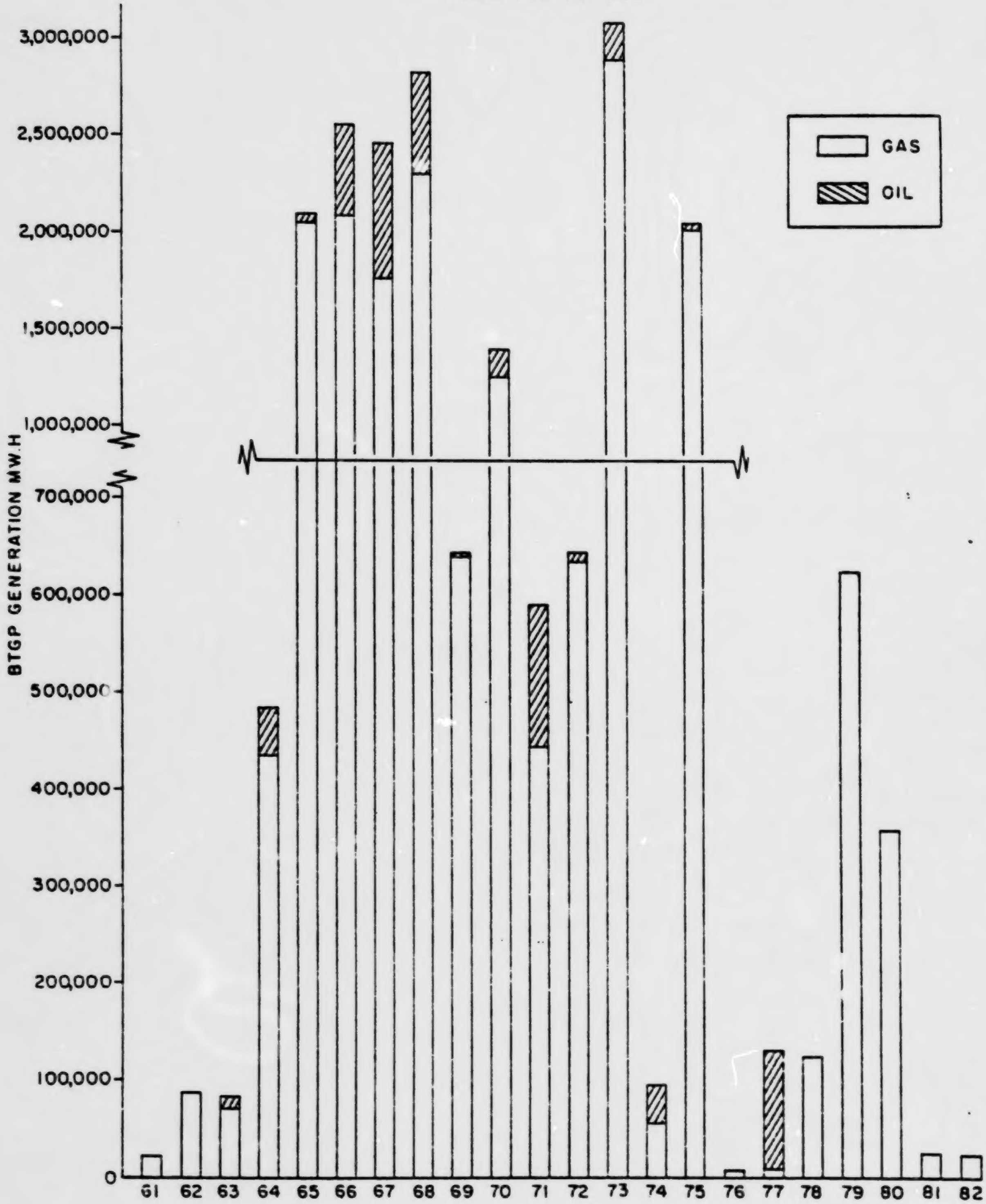

I
NORTH VANCOUVER
LYNN CREEK
SEYMOUR RIVER
INDIAN ARM
BELCARRA
BEDWELL BAY
Sasamat Lake
T6
T7
BURRARD THERMAL GENERATING PLANT
J
SECOND NARROWS
BURRARD
INLET
Burns Point
PORT MOODY
J
T5
T4
BURNABY
BURNABY MOUNTAIN
T14
T9
T15
PORT MOODY
T10
COQUITLAM RIVER
SCALE
I

Figure 2-3
ELECTRICITY GENERATED FROM BURRARD THERMAL GENERATING PLANT FROM 1961 TO 1982



NOTE: THE YEAR DESIGNATED IS A BUDGET YEAR WITH A MARCH YEAR END. (1961 DATA IS FROM APRIL 1961 TO MARCH 1962

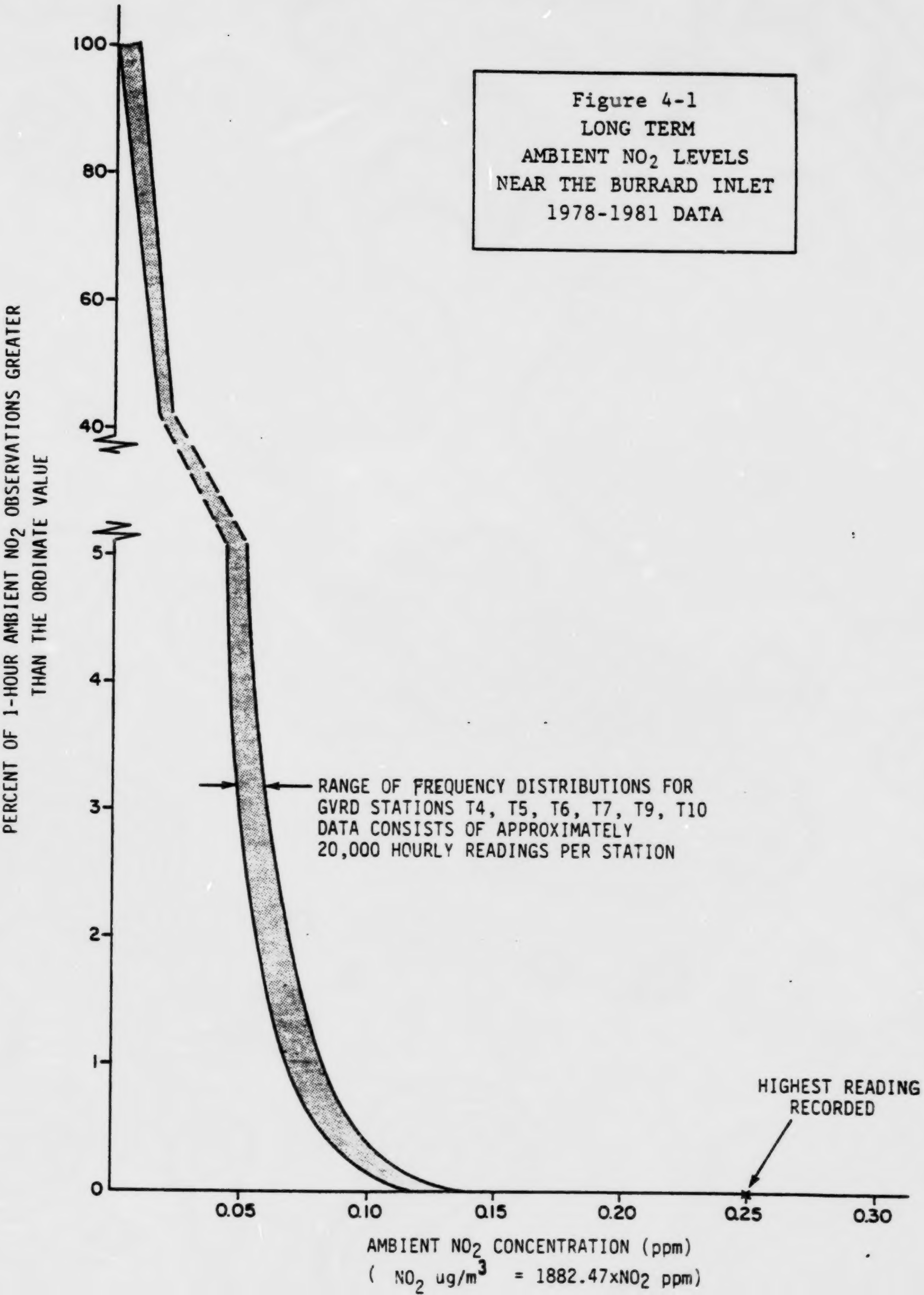
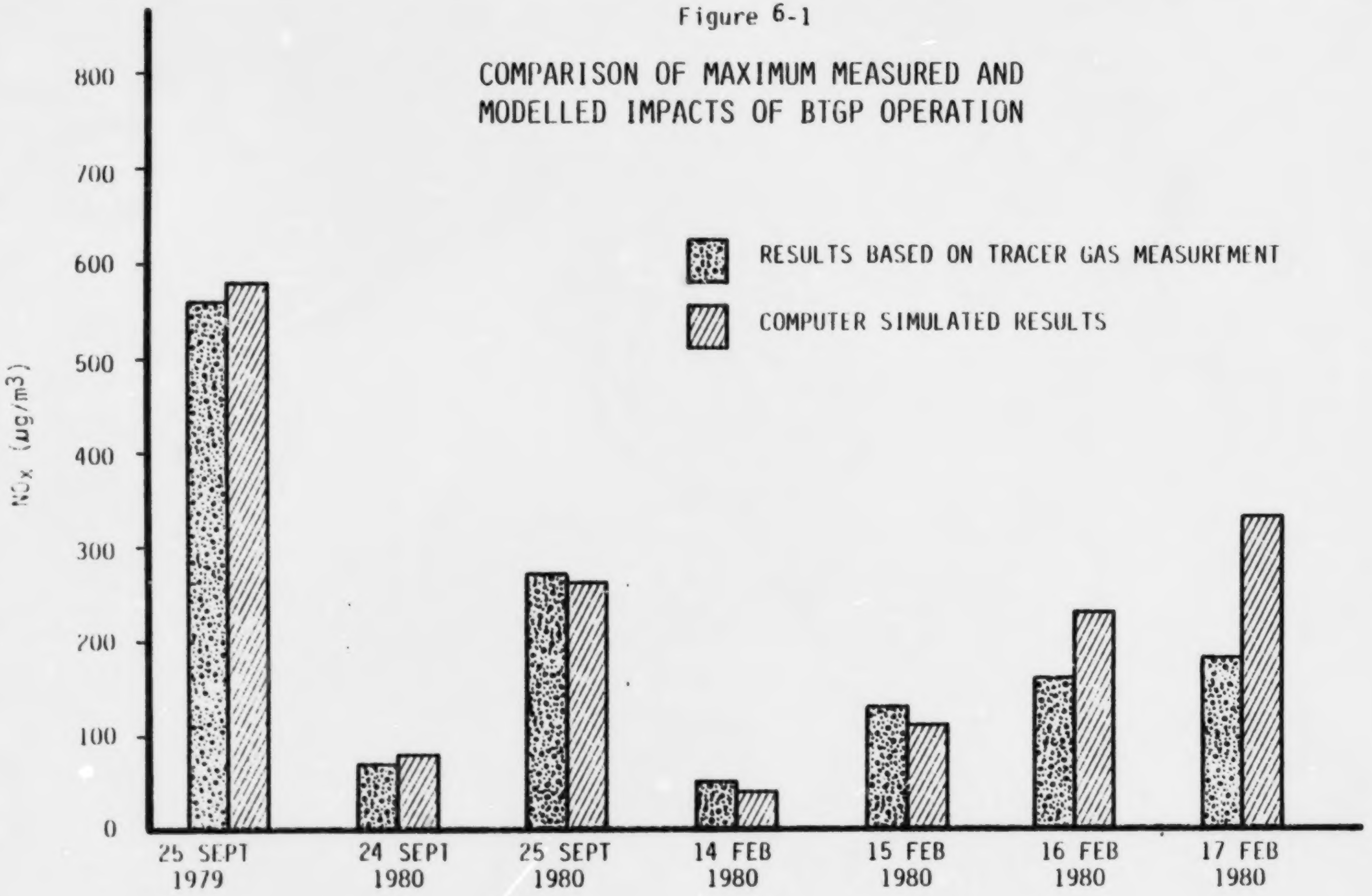


Figure 4-1
LONG TERM
AMBIENT NO_2 LEVELS
NEAR THE BURRARD INLET
1978-1981 DATA

Figure 6-1

COMPARISON OF MAXIMUM MEASURED AND MODELLED IMPACTS OF BTGP OPERATION



NOTES:
- REFER TO TABLES 5-2 AND 5-3 FOR NO_2 ASSESSMENT.
- MODEL RESULTS FROM GRID CELLS I19-24, J9-12 WERE NOT USED FOR THE ABOVE COMPARISON BECAUSE OF INCREASED UNCERTAINTY IN MODEL RESULTS CLOSE TO THE POWERPLANT.
- THE ABOVE RESULTS REPRESENT BTGP OPERATION AT A NORMAL MAXIMUM LOAD OF 600 MW.

TABLE 2-1

SUMMARY OF RECENT BTGP OPERATIONS ON NATURAL GAS FUEL

Date	Reason For Operation	Total Unit Hours of Operation	Power Generated MW.h	Maximum Number of Units Operating
2 Nov 1978	Outage of transmission line from GM Shrum required four units at Burrard on minimum load as back-up for system security.	8.00	1 211	4
14-15 Feb 1979	Problems with transmission lines from Mica required three units at Burrard on minimum load as back-up for system security.	38.00	4 261	3
19 Feb 1979	Ice build-up at Peace River caused reduced generation at GM Shrum. Two units at Burrard were put on minimum load.	14.00	710	2
12 Mar - 2 May 1979	Considerable running was required at Burrard to maintain Williston Lake water level. During this run six units up to full load.	2 618.00	360 298	5/6
25-27 Jun 1979	Plant equipment test. Open house for the public.	19.41	941	1
5 Jul 1979	Plant equipment test.	4.24	323	1
10-14 Sep 1979	Work on Peace 500 kV line.	389.00	25 374	3
24-28 Sep 1979	Plant environmental tests.	253.33	14 670	1/3/5
29-30 Sep 1979	GMS shutdown to commission Peace Canyon.	203.14	19 967	5
10-12 Oct 1979	Drain Peace Canyon for inspection. GMS shutdown.	317.38	25 175	6
14-17 Feb 1980	Plant environmental tests.	56.90	7 222	1/3
3 Mar - 18 Apr 1980	Filling Williston Reservoir.	3 864.83	535 811	3/4/5
22-26 Sep 1980	Environmental tests.	107.55	15 028	1
3-10 Oct 1980	Environmental tests.	248.31	40 678	3
20-24 Oct 1980	Operation to gather air quality information at GVRD stations.	319.26	46 778	3
20 Jan 1981	Full load NO_x tests (Unit 6).	12.46	1 697	1
3, 4, 11 Mar 1981	Test Unit 3.	12.20	965	1
28-30 Sep 1982 4, 7 Oct 1982	Back-up for transformer outage.	247.49	23 014	2/4
18 Jun 1983	Back-up for transformer outage.	34.34	1 559	2

TABLE 2-2

EMISSION OBJECTIVES

TABLE 2-2(a)

OBJECTIVES OF GASEOUS AND PARTICULATE EMISSIONS FROM ALL OPERATIONS IN THE FOOD-PROCESSING AND MISCELLANEOUS INDUSTRIES

Level Parameter	A	B	C	Monitoring Method
Total particulate				Isokinetic sampling followed by gravimetric analysis.
gr/scf	0.10	0.15	0.25	
mg/m³	229	343	564	
Lead as Pb, zinc as Zn				Isokinetic sampling followed by absorption spectro-photometry.
gr/scf	0.003	0.005	0.010	
mg/m³	7	11	23	
Sulphur dioxide as SO_2				Absorption in H_2O_2 solution followed by titrimetric analysis with barium perchlorate.
ppm	300	600	1 000	
mg/m³	798	1 596	2 660	
Nitrogen oxides as NO_2				Colourmetric analysis with phenol disulfonic acid.
ppm	600	1 000	1 200	
mg/m³	1 146	1 910	2 292	
Hydrocarbons as methane (CH_4)				Gas chromatographic analysis or equivalent.
ppm	150	300	600	
mg/m³	102	204	408	
Odour	No objectionable odour outside the plant boundary.			

Notes: 1. ppm is parts per million on a volumetric basis

2. mg/m³ means milligrams per cubic metre.

Source: Pollution Control Objectives for Food-processing, Agriculturally Orientated, and Other Miscellaneous Industries of British Columbia. 1975.

TABLE 2-2(b)

OBJECTIVES FOR GASEOUS AND PARTICULATE EMISSIONS FROM STATIONARY INDUSTRIAL COMBUSTION SOURCES

Operation	Level Parameter	A	B	C	Monitoring Method
Coal combustion	Total particulates lb/ton of coal	5.0	7.0	13	Isokinetic sampling followed by gravimetric analysis.
	Sulphur dioxide lb/ton of coal	20	30	60	Absorption in H_2O_2 solution followed by titrimetric analysis with barium perchlorate.
	Nitrogen oxides as NO_2 lb/ton of coal	27	45	54	Colourimetric analysis with phenol disulphonic acid.
Fuel-oil combustion	Total particulates lb/1 000 imp. gal.	44	66	110	Isokinetic sampling followed by gravimetric analysis.
	Sulphur dioxide lb/1 000 imp. gal.	100	200	300	Absorption in H_2O_2 solution followed by titrimetric analysis with barium perchlorate.
	Nitrogen oxides as NO_2 lb/1 000 imp. gal.	50	85	100	Colourimetric analysis with phenol disulphonic acid.
Natural gas combustion	Nitrogen oxides as NO_2 lb/10^6 scf	200	330	400	As above.
Liquefied petroleum gas combustion	Nitrogen oxides as NO_2 lb/1 000 imp. gal.	50	85	100	As above.

Source: Pollution Control Objectives for Food-processing, Agriculturally Orientated, and Other Miscellaneous Industries of British Columbia. 1975.

TABLE 2-3

BURRARD THERMAL BOILER EXHAUST GAS CHARACTERISTICS[*1]

Stack Flow Rate	(m^3/min) (DSCFM)	8 015-8 850 283 000-312 500
Average Stack Gas Temperature	(°C) (°F)	114-124 237-256
Stack Gas Composition		
Carbon Dioxide	(%)	9
Oxygen	(%)	4
Water Vapour	(%)	13
Nitrogen Oxides (ppm)	Unit 6 Unit 1-5	60-90 120-145
Particulate	(mg/m^3) (gr/scf)	2.3 0.001
Sulphur Dioxide[*2]	(mg/m^3) (ppm)	2 0.8
Hydrocarbon[*3]	(mg/m^3) (ppm)	1.3 2

[*1] Measurements at full load on Unit 6, September 1979 and February 1980.

[*2] Based on natural gas sulphur content of 0.5 gr/100 scf.

[*3] Hydrocarbon emission based on emission factor of 1 lb/10^6 scf. EPA document AP-42.

TABLE 2-4

BURRARD THERMAL EMISSIONS OF AIR CONTAMINANTS

Nitrogen Oxides*[1] (as NO_2)	lb/h/unit	151-251
	kg/h/unit	69-114
	lb/10^6scf	104-173
Particulates*[2]	lb/h/unit	2-16
	kg/h/unit	0.9-7.3
Sulphur Dioxide*[3]	lb/h/unit	2.1
	kg/h/unit	1
Hydrocarbon*[4] (as CH_4)	lb/h/unit	1.5
	kg/h/unit	0.7
	lb/10^6scf	1

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*[1] Based on measurements at full load on Units 1-6. WMB guideline Level A is 200 lb/10^6 scf measured as NO_2.

*[2] Range of measurements from Unit 6, September 1979.

*[3] Based on a natural gas sulphur content of 0.5 grains/100 scf.

*[4] Based on an emission factor of 1 lb/10^6 scf. EPA document AP-42.

TABLE 3-1

GVRD EMISSIONS OF SO_2, NO_x AND TOTAL HYDROCARBONS/1976
(tonne/year)

	SO_2	NO_x	Hydrocarbons
Application of Surface Coatings	-	-	7 739
Diesel and gasoline marketing	-	-	11 063
Diesel powered vehicles	2 077	14 200	1 400
Dry cleaning	-	-	1 504
Stationary combustion sources (space heating, power generation, etc.)	24 767	13 480	561
Gasoline powered vehicles	1 279	24 000	40 300
Non-highway use of gasoline	57	1 219	2 161
Off-highway mobile sources	1 823	7 964	2 492
Petroleum refining (See Note)	17 100	2 309	11 745
Incineration	44	48	15
Structural fires	-	-	342
Tire wear	-	-	32
TOTAL	47 147	63 220	79 354
Burrard Thermal Generating Plant (65 percent capacity factor)	-	3 660	-

Source: Reference 11

Note: A November 1982 emission survey by GVRD Air Pollution Control Department showed the following total emissions from the four Burrard Inlet oil refineries:

SO_2	3600	tonne/year
NO_x	1200	tonne/year
VOC	3100	tonne/year

TABLE 4-1

SUMMARY OF AIR QUALITY OBJECTIVES AND GUIDELINES

AIR CONTAMINANT	TIME BASE	UNITS	GOVERNMENT OF CANADA AIR QUALITY OBJECTIVES			BRITISH COLUMBIA AIR QUALITY GUIDELINES & OBJECTIVES		
			Maximum Desirable Level	Maximum Acceptable Level	Maximum Tolerable Level	Level A	Level B	Level C
Sulphur Dioxide	1 hour	ug/m^3	450	900	-	450	900	
		ppm	0.17	0.34	-	0.17	0.34	
	3 hour	ug/m^3	-	-	-	375	665	
		ppm	-	-	-	0.14	0.25	
	24 hour	ug/m^3	150	300	800	160	260	
		ppm	0.06	0.11	-	0.06	0.10	
	1 year	ug/m^3	30	60	-	25	75	
	Arithmetic mean	ppm	0.01	0.02	-	0.01	0.03	
Oxidants (Ozone)	1 hour	ug/m^3	100	160	300			
		ppm	0.051	0.082	0.153			
	24 hour	ug/m^3	30	50	-			
		ppm	0.015	0.025	-			
	1 year	ug/m^3	-	30	-			
	Arithmetic mean	ppm	-	0.015	-			
Carbon Monoxide	1 hour	ug/m^3	15000	35000	-	14300	28000	35000
		ppm	13	30	-	13	25	30
	8 hour	ug/m^3	6000	15000	20000	5500	11000	14300
		ppm	5	13	18	5	10	13
Nitrogen Dioxide	1 hour	ug/m^3	-	400	1000			
		ppm	-	0.21	-			
	24 hour	ug/m^3	-	200	300			
		ppm	-	0.11	-			
	1 year	ug/m^3	60	100	-			
	Arithmetic mean	ppm	-	0.05	-			
Suspended Particulate Matter - (Total)	24 hour	ug/m^3	-	120	400	150	200	
	1 year Geometric mean	ug/m^3	60	70	-	60	70	
Total Dustfall	1 Month	tons/mi^2/mo				15	25	
		mg/dm^{2}dy				1.75	2.90	
Lead	24 hour	ug/m^3				4	4	6
	1 year Geometric mean	ug/m^3				2	2	3
Zinc	24 hour	ug/m^3				5	5	8
	1 year Geometric mean	ug/m^3				3	3	4
Chlorine & Chlorine Dioxide	24 hour	ug/m^3				150	300	
		ppm				0.05	0.10	
Hydrogen Sulphide	1 hour	ug/m^3	(a) 1	(a) 15		(b) 7	(b) 28	
		ppm	-	-		.005	.020	
	24 hour	ug/m^3	-	5		3	6	
		ppm	-	-		.002	.004	
Hydrogen Fluoride	24 hour	ug/m^3	(a) 0.40	(a) 0.85		(c) -	(c) -	(c) -
	7 day	ug/m^3	0.20	0.55		1.0	1.0	1.7
	30 day	ug/m^3	-	0.35		-	-	-
	70 day	ug/m^3	-	0.20		-	-	-
	1 year Arithmetic mean	ug/m^3	-	-		0.5	0.5	1.0

NOTES: (a) Proposed Objective.

(b) Total reduced Sulphur Compounds measured as Hydrogen Sulphide.

(c) Total Gaseous Fluorides.

TABLE 4-2

AIR QUALITY IN THE GREATER VANCOUVER REGIONAL DISTRICT FOR 1980

Suspended Particulate (μg/m³)

Station Number	Annual Mean (e)	24-Hour Maximum	Number of Tests	Days Over Objective (g)
T1	70	116	51	-
T2	59	178	51	1
T3	72	272	52	6
T4	49	111	49	0
T5	36	85	49	0
T6	-	-	-	-
T7	25	59	53	0
T8	-	-	-	-
T9	55	201	58	3
T10	54	137	61	2

Sulphur Dioxide (ppm)

Station Number	Annual Average (f)	Maximum Average		Days Over 24-Hour/1-Hour Objective (a)
		24-Hour	1-Hour	
T1	0.01	0.03	0.09	0/0
T2	0.01	0.03	0.06	0/0
T3	0.01*[1]	0.01	0.03	0/0
T4	0.01	0.03	0.16	0/0
T5	0.01	0.04	0.12	0/0
T6	0.01	0.02	0.06	0/0
T7	0.01	0.17	0.51	1/2
T8	-	-	-	-
T9	0.01	0.05	0.15	0/0
T10	0.01	0.05	0.09	0/0

TABLE 4-2 - (Cont'd)

Ozone (ppm)

Station Number	Annual Average	Maximum Average		Days Over 1-Hour Objective (b)
		24-Hour	1-Hour	
T1	0.006	0.021	0.048	0
T2	0.009	0.026	0.080	0
T3	0.012	0.040	0.114	2
T4	0.009	0.030	0.109	3
T5	0.016	0.043	0.131	8
T6	0.012	0.033	0.085	1
T7	0.026	0.086	0.197	49
T8	0.010	0.030	0.060	0
T9	0.017	0.069	0.245	19
T10	0.013	0.047	0.101	1

Carbon Monoxide (ppm)

Station Number	Annual Average	Maximum Average		Days Over 8-Hour/1-Hour Objective (c)
		8-Hour	1-Hour	
T1	3*[1]	10	13	0/0
T2	1*[1]	9	16	0/0
T3	1	7	16	0/0
T4	1*[1]	6	10	0/0
T5	1*[1]	4	8	0/0
T6	1	6	8	0/0
T7	1	5	6	0/0
T8	1	7	8	0/0
T9	2*[1]	7	9	0/0
T10	1	7	14	0/0

TABLE 4-2 - (Cont'd)

Nitrogen Dioxide (ppm)				
Station Number	Annual Average	Maximum Average 24-Hour	Maximum Average 1-Hour	Days Over 24-Hour/1-Hour Objective (d)
T1	0.03	0.07	0.16	0/0
T2	0.02	0.05	0.18	0/0
T3	0.02	0.05	0.11	0/0
T4	0.02	0.06	0.14	0/0
T5	0.02	0.07	0.16	0/0
T6	0.02*[1]	0.07	0.19	0/0
T7	0.02	0.05	0.17	0/0
T8	0.02	0.05	0.11	0/0
T9	0.02*[1]	0.05	0.16	0/0
T10	0/02	0.05	0.17	0/0

---

*[1] Insufficient data for a valid average. A valid period has at least 75 percent of possible data.

Notes:

(a) 24-hour Federal Sulphur Dioxide Objective = 0.11 ppm; 1-hour Federal Objective = 0.34 ppm.
(b) 1-hour Federal Ozone Objective = 0.082 ppm.
(c) 8-hour Federal Carbon Monoxide Objective = 13 ppm; 1-hour Federal Objective = 30 ppm.
(d) 24-hour Federal Nitrogen Dioxide Objective = 0.11 ppm; 1-hour Federal Objective = 0.21 ppm.
(e) Annual mean is the annual geometric mean for suspended particulates.
(f) Annual average is the annual arithmetic average for sulphur dioxide.
(g) 24-hour Federal Objective = 120 $\mu g/m^3$ for suspended particulates.

Source: Condensed Summary GVRD AQMS Monitoring Data. Reference 3 - 1980.

TABLE 4-3

DISTRIBUTION OF NO_2 EXCEEDANCES OF 200 ug/m³ BY GVRD STATION FOR EACH MONTH

GVRD Station				No. of Hours of Exceedances									
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
T5	8	0	0	0	0	0	0	0	12	28	17	0	65
T6	8	0	3	0	4	1	6	4	23	22	5	0	76
T7	6	0	0	0	0	5	0	0	12	34	1	0	58
T8	11	0	0	1	0	0	0	0	1	4	4	0	21
T10	0	0	1	0	4	0	0	0	5	14	5	0	29
T2	0	0	0	0	0	0	0	0	7	6	1	0	14
T3	0	0	0	0	0	0	0	0	2	4	0	0	6
T1 & T1A	8	2	22	3	0	1	0	0	6	30	2	0	74
T4	5	0	0	0	0	0	0	1	10	18	1	0	35
T9	8	0	1	0	1	0	0	0	8	20	2	0	40
Total	54	2	27	4	9	7	6	5	86	180	38	0	418

Period of record evaluated 1978 to 1981.

Source: Reference 7.

TABLE 4-4

DISTRIBUTION OF NO_2 EXCEEDANCES OF 140 ug/m^3 BY GVRD STATION FOR EACH MONTH

GVRD				No. of Hours of Exceedances									
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
T5	44	6	6	2	2	1	7	11	56	82	58	7	282
T6	46	3	12	6	26	2	35	22	55	69	33	2	311
T7	16	4	12	5	4	11	5	6	35	93	8	1	200
T8	30	1	3	3	0	0	1	0	6	41	18	0	103
T10	7	0	4	0	7	0	6	5	29	71	18	0	147
T2	9	2	4	5	0	2	1	0	24	31	14	0	92
T3	3	1	3	1	0	2	5	0	16	17	16	0	64
T1 & T1A	62	38	98	13	27	12	10	2	30	105	7	1	405
T4	19	0	3	9	5	9	4	9	38	59	12	0	168
T9	33	6	6	1	2	2	1	10	41	64	12	0	178
Total	269	61	151	45	74	41	75	65	330	632	196	11	1950

Period of record evaluated 1978 to 1981.

Source: Reference 7.

TABLE 4-5

INDEX OF AIR QUALITY FOR STATIONS IN THE NATIONAL AIR POLLUTION SURVEILLANCE NETWORK

City	Station Location	1977	1978	1979	Category
Halifax	Barrington & Duke	22	22	26	G
Montreal	Peel & Maisonneuve	45	50	46	F
	3161 Joseph, Verdun	--	--	39	F
	Jardin Botanique	39	37	34	F
	Duncan & Decarie	43	49	51	P
	Boul. Laurentides	--	35	30	F
	Parc Pilon, Mtl-Nord	--	--	31	F
Hull	Gamelin & Joffre	--	20	28	G
Quebec City	155 Dorchester Sud	58	47	47	P
Ottawa	88 Slater Street	42	39	38	F
Windsor	471 University	46	46	33	F
Toronto	67 College Street	40	43	44	F
	Bathurst & Wilson	44	42	45	F
	Lawrence & Kennedy	37	40	40	F
	Queensway W. Hurontario	--	40	40	F
	Don Mills, Science Centre	--	--	31	F
	Elmcrest Road	36	41	34	F
Hamilton	Barton & Sanford	51	51	48	P
London	King & Rectory	44	42	44	F
St. Catharines	North St. & Geneva St.	46	42	38	F
Kitchener	Edna & Frederick	41	47	41	F
Winnipeg	65 Ellen Street	--	39	40	F
	Jefferson & Scotia	34	28	44	F
Regina	1620 Albert Street	--	--	40	F
Edmonton	10255-104th Street	48	48	53	P
	127 St. & 133 Avenue	39	41	45	F
Calgary	1611-4th Street S.W.	48	49	56	P
	39 St. & 29 Ave. N.W.	36	35	37	F

TABLE 4-5 - (Cont'd)

City	Station Location	1977	1978	1979	Category
Vancouver	Robson & Hornby	36	32	37	F
	2294 West 10th Avenue	36	34	40	F
	250 West 70th Avenue	40	36	42	F
	E. Hastings & Kensington	33	36	36	F
	Rocky Pt. Park	--	26	32	F
Victoria	1106 Cook Street	29	23	23	G

Index	Category
0 - 25	Good
26 - 50	Fair
51 - 100	Poor
100+	Very Poor

Source: Reference 10

TABLE 5-1

BURRARD THERMAL GENERATING PLANT OPERATION 1978 - 1980

BTGP Operation Date	Months of GVRD Record Evaluated	Maximum Recorded NO_2 Concentration*[1,2] (GVRD Stations T1 to T10) 1 Hour Average ppm	Location	24 Hour Average ppm	Location
2 Nov 1978	Nov 1978	0.11	T8	0.06	T3
14, 15, 19 Feb 1979	Feb 1979	0.08	T6, T1, T3	0.05	T1
12 Mar - 2 May 1979	Mar/Apr/May 1979	0.15	T1 (Apr 79)	0.07	T1 (Apr 79)
25-27 June 1979	June 1979	0.13	T7	0.06	T7
5 July 1979	July 1979	0.10	T2, T5, T6	0.04	T2, T3, T5, T10
10-14, 24-28, 29-30 Sept 1979	Sept 1979	0.18	T7	0.07	T2, T9
10-12 Oct 1979	Oct 1979	0.25	T7	0.08	T7
14-17 Feb 1980	Feb 1980	0.10	T6	0.05	T9
3 Mar - 18 Apr 1980	Mar/Apr 1980	0.10	T6, T7	0.05	T1
22-26 Sept 1980	Sept 1980	0.17	T10	0.06	T4, T6
3-10, 20-24 Oct 1980	Oct 1980	0.19	T6	0.06	T4, T6

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*[1] Data was extracted from reference 3, GVRD Ambient Air Quality Monitoring Data Report 1980.

*[2] Refer to Fig. 2-2 for locations of GVRD monitoring stations.

TABLE 5-2

ESTIMATED MAXIMUM NO_x CONCENTRATIONS FROM BTGP DURING TRACER TEST PERIODS

Date	Location (I, J)	NO_x Concentration*[1] ($\mu g/m^3$)	Range of Possible NO_2 Concentrations*[2] ($\mu g/m^3$)
24 Sept 1979	27, 9	210	84 - 190
25 Sept 1979	17, 8	560	220 - 500*[3]
26 Sept 1979	15, 14	74	30 - 67
28 Sept 1979	17, 13	100	40 - 90
29 Sept 1979	21, 12	150	60 - 140
30 Sept 1979	19, 9	20	8 - 18
24 Sept 1980	27, 12	66	26 - 59
25 Sept 1980	33, 8	270	110 - 240
3 Oct 1980	27, 12	120	48 - 110
4 Oct 1980	21, 12	73	29 - 66
5 Oct 1980	27, 12	200	80 - 180
6 Oct 1980	17, 13	97	39 - 87
7 Oct 1980	17, 13	99	40 - 89
14 Feb 1980	16, 6	49	20 - 44
15 Feb 1980	20, 5	130	52 - 120
16 Feb 1980	20, 10	160	64 - 140
17 Feb 1980	20, 5	180	72 - 160
28 Sept 1982	38, 4	6	2 - 5
29 Sept 1982	11, 5	270	110 - 240
30 Sept 1982	27, 12	160	64 - 140
5 Oct 1982	11, 5	67	27 - 60
7 Oct 1982	31, 6	6	2 - 5

---

*[1] Calculated from measured concentrations of ambient tracer gas and the ratio of emissions of tracer gas to nitrogen oxides (at normal maximum load of 600 MW).

*[2] Assumed range of NO to NO_2 conversion rates of from 40% to 90%. Concentrations are hourly averaged data.

*[3] Conversion rate measurements on 25 September 1979 indicated that less than 40% of NO_x would be in NO_2 form at NO_x concentrations greater than about 200 $\mu g/m^{3x}$(reference 6).

TABLE 5-3

BACKGROUND NO_2 AND PREDICTED BTGP CONTRIBUTION AT CVRD STATIONS DURING TRACER TESTS

	Predicted BTGP Contribution From Tracer Gas Measurements		Measured Background at CVRD Air Quality Station		Predicted Total NO_2 BTGP plus Background
Date [Column]	NO $(\mu g/m^3)$ [1]	NO_2*[1] $(\mu g/m^3)$ [2]	NO_2*[3] $(\mu g/m^3)$ [3]	Station Location*[4] [4]	NO_2*[5,1] $(\mu g/m^3)$ [5]
24 Sept 1979	160	64 - 150	160	T9	210 - 270
25 Sept 1979	200	80 - 180	300	T7	360 - 440*[2]
28 Sept 1979	30	12 - 27	60	T7	62 - 67
24 Sept 1980	66	26 - 59	98	T7	120 - 140
25 Sept 1980	32	13 - 29	150	T7	160 - 170
3 Oct 1980	120	48 - 110	94	T7	130 - 180
4 Oct 1980	55	22 - 50	36	T9	52 - 74
5 Oct 1980	200	80 - 180	70	T7	130 - 210
6 Oct 1980	16	6 - 14	21	T7	26 - 32
7 Oct 1980	7	3 - 6	45	T9	47 - 48
14 Feb 1980	14	6 - 13	32	T4	36 - 42
15 Feb 1980	11	4 - 10	36	T4	39 - 44
16 Feb 1980	84	34 - 76	110	T7	140 - 170
17 Feb 1980	66	26 - 59	57	T4	76 - 100
28 Sept 1982	1	1	75	T6	76
29 Sept 1982	3	1 - 3	150	T10	150
30 Sept 1982	1	1	230	T5	230
5 Oct 1982	55	22 - 50	150	T6	170 - 200
7 Oct 1982	1	1 - 2	56	T10	57 - 58

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*[1] Assumes range of conversion rates of NO to NO_2 from 40% to 90%. Concentrations are representative of hourly data for 600 MW operation. Calculated from tracer measurements at the CVRD site noted in Column 4.

*[2] Conversion rate measurements in the BTGP plume on 25 September 1979 indicated that less than 40% of NO_x would be in the form of NO_2 at NO_x concentrations greater than 200 $\mu g/m^3$ (Reference 6).

*[3] Background includes contribution from one unit of BTGP at full load, except on 28 September 1979 and 7 October 1980 when more than one unit was in operation.

*[4] Refer to Fig. 2-2 for CVRD station locations.

*[5] Highest combined 1-hour value for each tracer test day is reported.

Sample calculation: $[2] = [1] \times 0.40 \text{ to } [1] \times 0.90$

$$[5] = \left([3] - \frac{[2]}{4}\right) + [2]$$

TABLE 6-1

AGREEMENT BETWEEN MODELLED AND MEASURED CONCENTRATIONS

Date	No. of Samples Available for Comparison	Occurrences of Measured Values Within the Range of Modelled Predictions No.	%
25 September 1979	25	11	44
24 September 1980	51	26	51
25 September 1980	70	27	39
	146	64	44
14 February 1980	55	41	75
15 February 1980	59	32	54
16 February 1980	191	109	57
17 February 1980	129	87	67
	434	269	62

APPENDIX A

BURRARD THERMAL PLANT EMISSIONS

APPENDIX A

BURRARD THERMAL PLANT EMISSIONS

Table A-1 Burrard Thermal Generating Plant NO_x Emission Summary

Table A-2 Boiler No. 6 Stack Gas Parameters

Table A-3 Boiler No. 6 Particulate Emissions September 1979

Table A-4 BTGP NO_x Concentration Measurements on Boiler Nos. 1 to 6 September 1980

Table A-5 BTGP NO_x Concentration Measurements on Boiler No. 6 February 1980

Table A-6 Boiler No. 6 Stack Gas Parameters February 1980

TABLE A-1

BURRARD THERMAL GENERATING PLANT NO_x EMISSION SUMMARY

Unit	Date	NO_x Conc.*[1] ppm	Stack Flow*[2] dscfm	No_x Emission*[3] lb/hr	lb/10^6 SCF
1	Sept 1979	129	282 600	228	157
2	Sept 1979	138	282 600	244	168
3	Sept 1979	142	282 600	251	173
4	Sept 1979	139	282 600	246	170
5	Sept 1979	119	282 600	210	145
6	Sept 1979	76	282 600	151	104
	Feb 1980	93	312 500	204	141
1-6	Sept 1979			1 330	153
1-6	Feb 1980			1 383	159

---

*[1] Measurements on Units 1 to 5 in September 1979 were carried out upstream of the rotary air heaters.

*[2] Stack flows for Units 1 to 5 during the September 1979 tests were assumed to be equal to measured Unit 6 flows at the stack sample platform. Standard conditions 68°F and 29.92 in. Hg.

*[3] NO_x emissions for Units 1 to 5 in the September 1979 results have been corrected to 4% O_2 so that Unit 6 flow rate can be applied. Full load natural gas flow rate is 1.45 x 10^6 SCF per hour per unit.

TABLE A-2

BOILER NO. 6 STACK GAS PARAMETERS
SEPTEMBER 1979

Date	No. Tests	Stack Temp. (°F)	Gas Composition			Flowrate		NO_x Emission		Variance
			% CO_2	% O_2	% H_2O	acfm	dscfm	(ppm)	(lb/h)	
24 Sept	9	240	9.5	3.0	12	413 600	275 600	60.2	121	123
25 Sept	12	240	9.5	3.0	12	432 900	288 400	75.1	150	17.5
26 Sept	12	240	9.0	4.0	15	431 000	277 400	76.7	153	18
28 Sept	9	240	9.0	4.0	11	429 000	289 000	90.2	180	25
Average		240	9.25	3.5	12.5	426 600	282 600	75.6	151	
Standard Deviation						8 800	7 100	12.3	24	

Source: Reference 1
Envirocon Ltd., Report VT1693
Boiler Emission Survey
Burrard Thermal Plant
November 1979

TABLE A-3

BTGP BOILER NO. 6 PARTICULATE EMISSIONS
SEPTEMBER 1979

Test No.	Date/Time	Stack Temp. (°F)	Flowrate acfm	Flowrate dscfm	Gas Composition % CO_2	Gas Composition % O_2	Gas Composition % H_2O	Particulate Emission gr/dscf	Particulate Emission (lb/h)
1	26 Sept/10:00	242	439 700	288 100	9.0	4	14.4	0.0067	16.7
2	28 Sept/09:15	240	423 700	290 600	9.5	4	10.6	0.0007	1.8
3	29 Sept/08:30	239	419 100	275 600	9.5	4	14.4	0.0013	3.1
4	30 Sept/08:00	212	410 200	282 000	9.5	4	14.0	0.0009	2.2
	Average	233	423 200	284 100	9.4	4	13.4	0.0010	2.4
	Standard Deviation	14	12 400	6 700				0.0003	0.7

Note: Test 1 has not been included in the average standard conditions (page 19 of Reference 1), dry gas at 68°F and 29.92 in Hg.

Source: Reference 1
Envirocon Ltd., Report VT1693
Boiler Emission Survey
Burrard Thermal Plant
November 1979

TABLE A-4

BTGP NO_x CONCENTRATION MEASUREMENTS ON BOILERS 1 TO 6 SEPTEMBER 1979

Unit Numbers and Test Site*[1]	Number of Tests	Average NO_x (ppm)	Variance
6	42	76	123
5West	6	120	4
5East	3	117	24
4West	2	136	6
4East	2	142	1
3West	4	145	23
3East	4	139	10
2West	4	145	116
2East	4	131	247
1West	4	130	34
1East	4	128	2

---

*[1] NO_x samples from units 1 to 5 were taken upstream of the rotary air heater prior to entering the stack. At this location two ducts (east and west) carry the flue gases. Unit 6 was sampled in the boiler stack.

Source: Reference 1
Envirocon Ltd., Report VT1693
Boiler Emission Survey
Burrard Generating Plant
November 1979

TABLE A-5

BTGP NO_x CONCENTRATION MEASUREMENTS ON BOILER NO. 6
FEBRUARY 1980

Date	Number Of Tests	Average No_x (ppm)	Variance
14 Feb 1980	6	91	71
15 Feb 1980	6	93	487
16 Feb 1980	6	99	60
17 Feb 1980	6	89	49
All Tests	24	93	158

Source: Reference 2
Envirocon Ltd., Report VT1698
Boiler Emission Survey
Burrard Generating Plant
February 1980

TABLE A-6

BOILER NO. 6 STACK GAS PARAMETERS
FEBRUARY 1980

Test	Date	Time	Ave. Stack Temp. °F	% CO_2	% O_2	Stack Flowrates Ave. fps	acfm	dscfm*[1]
1	14/01/80	08:44	255	8.5	5.0	-	-	-
2	14/02/80	10:42	240	8.5	5.0	-	-	-
3	14/02/80	12:58	280	8.5	5.0	-	-	-
4	15/02/80	07:56	250	9.0	4.5	-	-	-
5	15/02/80	12:05	240	9.0	4.5	51.0	469 700	310 900
6	15/02/80	13:33	260	9.0	4.0	51.7	477 400	307 200
7	16/02/80	08:30	280	9.5	4.0	53.8	496 500	310 300
8	16/02/80	10:36	260	9.0	4.0	51.8	478 300	307 200
9	16/02/80	11:50	240	9.0	4.0	52.3	483 100	319 100
10	17/02/80	08:50	255	8.5	4.5	52.8	488 200	313 200
11	17/02/80	10:28	260	9.0	4.0	53.7	495 600	318 300
12	17/02/80	11:18	250	9.0	4.0	52.1	481 100	313 500
Ave.			256	8.9	4.4	52.4	483 700	312 500

---

*[1] Standard Conditions: Dry Gas at 68°F and 29.92 in. Hg.

Note: Water content of exhaust taken as 12.5 percent. This value was representative of water vapour determinations during September 1979 testing at indicated % CO_2, % O_2.

Source: Reference 2
Envirocon Ltd., Report VT1698
Boiler Emission Survey
Burrard Generating Plant
February 1980

APPENDIX B

AMBIENT NO_2 DATA FROM THE GVRD AQMS NETWORK

Note: This is unedited data; refer to GVRD Annual Reports for published data

B1 GVRD NETWORK 1-HOUR CONCENTRATIONS OF NO_2 DURING TRACER STUDY PROGRAM

B2 COMPARISON OF NO_2 DATA DURING BTGP OPERATIONAL AND NON-OPERATIONAL PERIODS

B3 GVRD NO_2 DATA - THE EFFECTS OF METEOROLOGY

APPENDIX B1

GVRD NETWORK 1-HOUR CONCENTRATIONS OF NO_2 DURING TRACER STUDY PROGRAM

Table B1-1 Daily Megawatt Hours Generated During BTGP Operation September 1979 to October 1980

Table B1-2 AQMS Monthly 1-Hour Averages - September 1979

B1-3 AQMS Monthly 1-Hour Averages - October 1979

B1-4 AQMS Monthly 1-Hour Averages - February 1980

B1-5 AQMS Monthly 1-Hour Averages - March 1980

B1-6 AQMS Monthly 1-Hour Averages - April 1980

B1-7 AQMS Monthly 1-Hour Averages - September 1980

B1-8 AQMS Monthly 1-Hour Averages - October 1980

B1-9 AQMS Monthly 1-Hour Averages - September, October 1982

TABLE B1-1

DAILY MEGAWATT HOURS GENERATED DURING BTGP OPERATION SEPTEMBER 1979 TO OCTOBER 1980

Date	Sept/79	Oct/79	Feb/80	Mar/80	Apr/80	Sept/80	Oct/80
1					12 027		
2					14 875		
3				3 789	14 927		2 727
4				5 445	14 889		3 688
5				780	14 968		3 684
6				4 397	15 032		3 856
7				8 909	14 888		7 250
8				11 238	14 990		7 238
9				11 275	14 973		5 715
10	2 020	4 508		11 215	14 793		6 520
11	5 614	12 817		9 042	14 567		
12	6 052	7 850	317	6 595	14 727		
13	6 269			6 936	14 710		
14	5 419		1 495	8 133	15 664		
15			1 663	8 238	14 282		
16			2 511	9 832	13 607		
17			1 236	4 599	12 002		
18				9 451	4 141		
19				14 675			
20	471			14 760			4 750
21				14 502			10 639
22				14 269		1 116	10 943
23				11 774		3 118	11 002
24	2 323			13 209		3 669	9 444
25	2 287			11 102		3 687	
26	2 108			11 756		3 438	
27	1 300			9 544			
28	6 648			13 126			
29	10 960			11 600			
30	9 007			13 080			
31				12 477			

Note: One unit operating at full load (150 MW) for 24 hours will generate 3600 MW.h/d.

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] B.C. HYDRO - SMYTHE AND HORNBY - VAN.
[illegible] 19[illegible]

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	23	23	23	20	21	21	24	22	21	21	24	25	36	38	37	33	26	25	25	25	25	28	19	18	24	38	18	25
2	19	17	19	13	17	21	18	20	20	20	20	20	21	22	22	21	21	15	22	24	29	29	27	24	24	29	13	20
3	21	22	19	17	19	20	20	26	25	22	13	18	18	18	20	21	24	25	35	30	28	27	27	28	24	35	17	23
4	25	25	23	22	22	18	17	16	20	23	23	23	21	25	30	30	34	35	31	31	28	29	28	29	24	35	16	25
5	27	26	26	24	24	23	18	17	19	23	22	37	37	34	31	36	33	32	31	26	25	22	21	19	24	37	17	26
6	22	21	20	19	18	18	16	15	15	15	35	39	cal	44	44	47	44	40	31	30	22	21	21	17	23	47	15	26
7	24	20	19	19	19	19	18	21	27	47	59	68	75	91	101	84	71	39	29	30	36	38	32	29	24	101	18	41
8	37	29	21	16	13	12	17	21	21	22	30	30	24	23	24	29	37	34	34	32	29	29	28	24	24	37	12	25
9	24	24	24	23	22	22	21	22	21	21	21	29	34	34	33	33	30	29	29	29	28	18	17	14	24	34	14	25
10	14	15	14	15	15	13	12	21	29	23	24	23	24	21	22	23	23	22	24	23	23	22	17	17	24	29	12	20
11	10	10	10	10	11	10	10	13	21	20	10	13	18	17	20	10	18	15	15	15	14	14	18	19	24	21	10	15
12	17	18	18	16	17	17	17	35	62	87	84	35	27	26	23	23	23	24	24	25	31	27	24	19	24	87	16	29
13	21	24	19	17	18	20	22	44	cal	69	51	55	46	33	28	28	28	42	31	29	33	36	30	28	23	69	17	32
14	29	29	24	26	24	25	24	44	cal	cal	cal	cal	cal	cal	cal	cal	87	83	83	64	49	50	50	45	16	87	24	44
15	46	43	43	43	29	29	29	31	31	31	31	40	33	27	29	29	29	39	44	44	44	35	35	33	24	46	27	35
16	34	34	34	33	31	31	31	30	31	33	32	32	30	30	29	29	33	34	33	32	30	29	29	28	24	34	28	31
17	26	24	24	24	24	24	24	38	39	30	30	32	30	30	28	32	32	30	31	31	34	34	32	32	24	39	24	29
18	31	29	29	28	28	30	36	62	59	46	cal	38	33	31	29	30	29	25	24	21	22	21	28	25	23	62	21	31
19	29	22	22	22	24	26	28	40	40	40	38	33	39	54	54	51	49	53	55	55	55	51	54	40	24	55	22	40
20	44	40	40	40	41	42	41	39	42	41	41	40	40	52	47	42	42	39	35	35	35	32	31	31	24	52	31	39
21	28	25	21	13	13	13	20	21	23	25	21	24	25	26	26	25	25	25	25	25	25	27	22	16	24	28	13	22
22	22	17	17	17	17	18	19	19	22	28	29	25	23	21	17	18	19	20	20	21	20	18	16	15	24	29	15	20
23	21	19	15	15	16	16	16	12	13	13	13	14	16	20	21	22	22	21	21	20	18	18	21	17	24	22	12	17
24	16	17	17	18	17	24	17	31	45	16	12	27	16	16	16	21	22	21	21	23	21	16	14	17	24	45	14	21
25	17	11	13	15	16	16	16	28	56	94	cal	44	41	37	38	48	61	47	49	49	31	34	33	29	23	94	11	35
26	29	29	29	25	25	30	29	28	29	30	29	31	31	36	32	30	31	29	29	29	28	23	27	27	24	36	25	29
27	26	25	24	26	24	27	21	17	25	27	31	32	33	35	29	29	27	27	30	31	31	35	32	27	24	35	17	27
28	26	20	18	18	19	23	24	23	37	41	49	37	29	32	31	41	35	34	31	25	18	16	12	12	24	49	12	27
29	18	18	12	11	12	17	15	12	12	24	21	23	23	25	25	26	30	24	17	17	19	15	15	15	24	30	11	18
30	14	17	19	20	22	21	16	12	19	22	21	24	31	31	32	38	33	32	32	27	26	28	22	25	24	38	12	24
	25	23	22	21	21	22	21	26	29	33	31	31	31	32	32	2	34	32	31	30	29	28	26	24				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

1-2 2296 UPST 10TH. AVE. - VAN.
SEPT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1			.. not available ..																									
2			.. not available ..																									
3			.. not available ..																									
4			.. not available ..																									
5			.. not available ..																									
6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	58	57	52	54	46	41	39	35	31	9	58	31	43
7	36	37	29	29	29	29	31	34	49	58	65	72	79	94	86	102	91	57	32	40	47	48	50	49	24	102	29	52
8	44	18	25	24	18	19	27	23	26	26	25	28	31	36	38	43	41	41	41	41	40	35	27	27	24	44	18	31
9	31	21	21	29	24	22	21	21	21	21	21	22	21	37	36	26	21	20	36	39	38	29	36	22	24	39	20	25
10	21	20	16	16	17	16	16	31	31	31	27	cal	20	24	26	27	24	21	28	28	28	26	27	26	23	31	16	24
11	22	20	16	17	16	13	19	30	28	21	20	17	18	21	22	24	25	29	30	32	29	25	26	26	24	32	13	22
12	22	22	19	15	18	18	18	35	53	73	69	37	24	24	24	27	27	27	31	32	31	27	24	23	24	73	18	29
13	24	20	19	19	17	18	18	46	64	55	42	42	39	36	33	33	32	41	43	43	39	40	41	37	24	64	17	34
14	33	33	32	31	26	26	26	42	79	140	161	139	110	71	63	52	76	74	82	74	64	59	50	50	24	161	26	65
15	50	48	51	39	26	33	37	36	29	35	32	29	29	29	35	46	46	38	51	52	45	45	45	38	24	52	26	38
16	40	39	37	36	31	31	30	29	29	29	28	28	27	18	16	16	16	24	32	39	32	31	29	26	24	40	16	29
17	22	21	21	20	20	19	19	37	cal	cal	cal	cal	cal	28	28	35	33	33	44	42	37	26	26	26	19	44	19	28
18	19	19	15	17	21	21	20	44	cal	cal	cal	cal	27	28	28	28	31	31	30	29	30	27	27	27	20	44	15	26
19	27	28	28	27	25	25	30	32	42	42	42	40	32	42	41	43	47	47	47	52	48	43	35	33	24	52	25	37
20	25	33	30	32	33	32	31	33	35	39	40	38	30	39	40	42	39	37	33	35	31	31	32	24	24	42	24	34
21	24	19	17	12	11	9	19	20	18	22	22	22	23	24	25	25	23	24	25	25	26	27	27	23	24	27	9	21
22	17	17	15	15	14	15	17	18	20	29	29	22	21	20	20	19	20	21	22	22	20	19	15	11	24	29	11	19
23	12	9	8	9	15	16	16	13	13	12	13	12	12	12	17	18	18	23	22	21	15	10	8	7	24	23	7	13
24	6	6	7	17	13	13	14	15	17	18	19	18	18	18	20	20	20	23	23	18	13	11	8	7	24	23	6	15
25	10	11	10	10	10	10	7	24	44	76	33	28	29	25	26	38	44	43	51	50	26	25	24	22	24	76	7	28
26	22	23	24	20	14	20	25	29	30	30	30	30	31	39	39	35	33	30	26	26	35	35	24	24	24	39	14	27
27	26	25	24	25	25	25	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7	26	22	23
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23	23	23	25	26	30	43	41	41	38	35	32	32	13	43	23	31
29	31	34	34	30	28	21	26	26	30	32	34	37	38	37	36	36	37	37	37	36	32	31	29	28	24	38	21	32
30	27	27	27	27	26	26	24	21	24	24	24	22	25	26	15	15	42	40	46	46	43	42	39	31	24	46	15	29
	26	25	23	23	21	21	22	29	34	41	39	35	33	33	32	35	36	36	38	38	34	32	30	28				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

T-1 [illegible] STREET WORKS YARD - VA[illegible]
[illegible]

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	[illegible]	26	26	29	11	12	15	20	29	26	24	23	17	13	13	15	17	16	17	17	17	16	15	16	24	12	12	19
2	17	13	11	11	11	11	11	10	9	9	8	7	15	18	18	17	17	15	15	10	13	15	13	14	24	18	7	12
3	12	[illegible]	12	16	12	14	13	15	16	16	12	9	9	9	10	9	12	12	15	25	31	34	29	[illegible]	24	34	9	16
4	16	11	28	27	25	24	29	27	26	26	24	23	23	24	23	24	29	33	33	37	31	26	23	13	24	37	11	27
5	17	16	16	17	18	21	30	30	26	23	22	26	26	26	27	25	25	31	38	41	33	33	31	31	24	41	16	26
6	20	21	21	22	21	25	26	27	33	33	cal	26	22	18	19	21	40	43	46	39	31	28	28	26	23	46	18	28
7	27	21	21	19	19	23	27	29	19	42	64	48	36	39	56	69	66	62	38	30	29	29	39	29	24	69	19	37
8	23	16	14	18	15	18	25	20	16	14	13	11	17	17	17	19	19	20	31	30	25	19	15	13	24	31	11	18
9	13	11	11	10	10	12	12	9	9	8	8	7	5	5	5	6	7	12	23	30	31	28	33	32	24	33	5	13
10	20	20	23	15	14	16	18	28	32	26	21	16	13	13	20	15	16	21	26	27	26	28	26	27	24	28	13	20
11	20	18	14	13	12	13	17	31	36	7	10	8	8	11	14	19	19	18	20	20	19	22	16	17	24	36	7	18
12	24	19	18	19	16	13	24	cal	48	43	43	21	22	15	15	15	16	23	24	21	24	26	32	31	23	48	13	24
13	22	20	26	16	13	16	32	39	cal	cal	cal	cal	cal	cal	cal	35	15	37	39	33	35	32	33	60	17	60	13	29
14	31	31	27	25	21	23	38	56	90	78	78	82	89	74	60	72	80	94	74	66	68	58	56	76	24	90	21	59
15	60	49	78	48	19	33	33	32	21	19	19	27	35	25	19	21	27	38	28	35	50	46	44	39	24	78	19	33
16	15	14	11	25	23	23	24	32	23	20	15	16	10	6	9	11	13	21	34	28	23	21	24	23	24	35	6	21
17	32	28	28	25	25	21	25	36	39	26	24	25	23	cal	26	28	29	32	37	32	36	36	39	49	23	49	23	30
18	31	31	31	32	30	30	33	68	81	66	43	38	33	25	32	32	38	36	35	35	35	35	35	35	24	81	25	38
19	10	10	28	30	31	36	59	48	18	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	59	28	34
20			.. not available ..																									
21			.. not available ..																									
22			.. not available ..																									
23			.. not available ..																									
24			.. not available ..																									
25			.. not available ..																									
26			.. not available ..																									
27			.. not available ..																									
28			.. not available ..																									
29			.. not available ..																									
30			.. not available ..																									
	32	26	24	22	30	21	25	31	11	28	17	25	31	21	24	25	29	30	32	11	11	10	29	28				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible]

[illegible] Nitrogen Dioxide (ppm * 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	.. not available ..																											
	.. not available ..																											
	.. not available ..																											
	.. not available ..																											
	.. not available ..																											
	.. not available ..																											
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	.. not available ..																											
	.. not available ..																											
	.. not available ..																											
24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	39	35	43	50	45	44	43	36	33	38	(10)	50	33	40
25	29	24	15	18	19	36	26	37	NA	NA	130	152	161	CAL.	68	52	42	49	47	39	30	22	17	17	21	161	15	49
26	16	15	20	23	14	23	27	26	51	26	20	19	25	24	29	25	22	18	23	16	14	15	13	12	24	31	12	21
27	16	17	17	15	14	16	13	13	19	NA	NA	24	22	26	26	26	28	22	24	26	29	27	21	16	22	29	13	21
28	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	33	25	20	23	19	21	37	45	44	34	30	31	24	26	(15	45	19	30
29	28	26	27	23	21	20	19	16	17	16	19	23	23	21	22	25	27	24	24	21	19	17	19	17	24	28	16	21
30	13	12	11	11	11	15	15	15	15	10	11	12	12	22	27	31	38	42	41	32	33	37	29	23	24	42	10	22
	20	19	18	18	16	20	20	21	21	21	43	43	44	23	32	30	34	36	35	30	28	26	22	21				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] OPERATION [illegible] - [illegible]
[illegible] 197[illegible]

POLLUTANT: nitrogen dioxide (ppm x 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	[illegible]	1[illegible]	11	7	[illegible]	12	[illegible]	7	[illegible]	[illegible]	6	[illegible]	7	9	[illegible]	[illegible]	26	29	20	16	12	11	21	19	24	29	6	12
2	[illegible]	21	21	15	14	12	9	9	13	11	11	11	16	11	10	16	13	20	23	26	33	30	27	27	24	19	9	13
3	21	19	15	13	17	11	11	16	18	9	14	13	12	11	10	14	19	26	26	30	19	16	20	19	24	30	9	16
4	21	17	16	15	16	16	13	22	26	21	23	26	26	27	25	20	18	18	17	12	11	11	11	18	24	28	11	18
5	15	11	11	19	17	14	17	23	33	31	26	21	19	16	20	23	24	39	36	38	32	20	7	12	24	39	7	22
6	15	15	13	13	13	7	6	17	14	8	7	7	7	8	9	9	13	34	50	23	12	15	20	14	24	50	6	14
7	[illegible]	3	3	4	8	8	22	22	15	8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	22	2	9
8	.. not available ..																											
9	.. not available ..																											
10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31	30	33	27	[illegible]	35	36	28	27	27	28	11	36	24	29
11	21	15	20	21	21	16	21	71	76	81	73	16	[illegible]	23	37	32	39	40	31	30	37	38	35	3[illegible]	2[illegible]	81	15	36
12	32	26	21	20	22	24	44	85	121	89	98	91	75	50	36	41	41	3[illegible]	43	48	48	48	47	47	24	121	20	50
13	3[illegible]	11	31	31	34	30	30	72	81	50	51	87	cal	cal	28	29	37	39	49	56	32	2[illegible]	2[illegible]	3[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
14	[illegible]	34	30	36	39	27	27	72	82	81	92	98	59	64	64	63	29	96	108	78	31	49	64	55	24	108	21	58
15	56	34	36	17	18	21	15	15	15	13	16	17	17	16	16	18	23	41	45	45	41	86	35	35	24	50	13	25
16	29	29	30	31	26	16	10	20	16	16	15	16	21	25	18	12	19	18	32	27	22	21	25	21	24	32	10	21
17	[illegible]	21	13	14	17	13	13	17	41	59	39	52	39	10	14	NA	40	53	47	46	57	55	51	46	23	59	10	31
18	35	41	40	42	43	34	38	45	cal	cal	cal	cal	cal	cal	cal	cal	55	75	48	46	38	55	48	49	16	75	34	[illegible]
19	33	30	27	28	22	19	24	NA	40	41	35	28	27	20	24	45	40	48	58	62	59	58	58	45	23	62	19	37
20	51	51	46	44	54	48	49	50	44	50	46	45	43	29	36	46	48	38	42	40	33	30	32	32	24	53	29	42
21	27	11	11	26	27	18	27	35	31	34	29	28	37	30	28	25	25	30	32	32	31	31	30	30	24	37	11	29
22	[illegible]	2[illegible]	29	26	23	26	24	34	34	42	32	53	42	37	31	29	29	31	30	29	28	27	27	27	24	52	24	31
23	[illegible]	1[illegible]	2[illegible]	21	19	13	1[illegible]	21	27	30	21	[illegible]	23	24	22	24	[illegible]	[illegible]	31	41	37	[illegible]	31	30	[illegible]	41	1[illegible]	24
24	1[illegible]	1[illegible]	18	16	16	18	18	25	48	66	96	104	46	cal	30	29	31	42	42	39	36	42	41	35	23	104	16	38
25	12	31	30	29	32	28	28	49	82	129	146	147	123	100	64	65	49	44	52	32	39	25	19	19	24	147	19	57
26	17	15	14	19	14	15	16	16	16	31	26	26	27	14	14	13	11	11	11	12	11	11	11	11	24	31	11	18
27	10	10	9	9	10	11	20	19	13	21	26	25	23	27	31	33	34	35	33	33	34	35	35	25	2[illegible]	35	9	23
28	1[illegible]	15	15	17	17	27	29	31	24	33	43	[illegible]	26	17	23	25	36	42	43	32	19	14	21	17	2[illegible]	43	14	26
29	21	[illegible]	28	26	25	24	27	16	13	10	7	11	15	11	8	14	12	16	9	13	16	14	14	15	2[illegible]	[illegible]	7	1[illegible]
30	1[illegible]	11	1[illegible]	1[illegible]	11	1[illegible]	17	15	1[illegible]	26	17	11	15	[illegible]	21	20	[illegible]	3[illegible]	47	[illegible]	[illegible]	16	1[illegible]	1[illegible]	24	47	11	[illegible]
	16	13	[illegible]	21	21	20	22	33	3[illegible]	1[illegible]	2[illegible]	20	17	26	25	27	1[illegible]	37	35	[illegible]	10	10	11	2[illegible]				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] 75 RIVERSIDE DRIVE - NORTH VAN.
[illegible] 1979

POLLUTANT: Nitrogen Dioxide (ppm x 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	14	6	1	1	1	[illegible]	2	2	[illegible]	2	2	2	4	10	9	8	9	3	5	4	4	9	9	9	24	14	1	5
2	11	12	9	1	7	1	1	0	1	3	1	3	3	6	5	5	5	14	9	9	17	19	17	17	24	19	0	7
3	[illegible]	13	[illegible]	[illegible]	11	3	13	14	11	5	1	8	5	4	4	4	16	16	17	18	14	11	11	11	24	18	4	10
4	[illegible]	5	2	1	4	4	6	10	17	14	14	26	25	23	22	11	7	10	9	3	7	6	5	7	24	26	1	10
5	5	11	6	6	5	5	6	18	23	23	23	14	14	14	15	16	12	21	18	11	10	7	9	10	24	18	4	14
6	[illegible]	9	6	4	4	4	3	11	12	11	7	7	11	11	NA	11	12	22	7	4	3	3	3	4	23	22	3	8
7	1	1	2	2	12	8	9	12	13	21	45	53	5	5	13	10	4	10	13	16	9	6	6	4	24	53	1	12
8	11	7	4	5	5	5	10	15	11	10	10	13	7	11	15	14	9	7	6	6	7	11	11	11	24	15	6	9
9	3	9	8	6	5	5	5	4	4	5	6	6	5	5	5	8	10	10	11	12	9	6	5	5	24	12	4	7
10	4	4	3	2	1	1	4	3	11	32	22	15	8	3	8	12	11	11	16	6	8	4	4	6	24	32	1	9
11	9	1	1	1	1	2	1	14	18	27	32	29	6	7	7	7	9	11	11	11	10	10	10	9	24	32	1	10
12	7	6	3	2	1	5	4	14	32	43	41	35	41	17	9	10	7	11	12	12	11	16	11	10	24	43	2	15
13	7	6	9	10	13	10	4	11	37	39	36	cal	44	44	27	23	23	39	40	40	37	30	27	24	23	44	4	24
14	16	12	10	10	10	11	11	33	63	83	106	83	92	136	112	94	75	77	93	37	36	27	19	20	24	136	10	50
15	20	15	10	11	11	14	8	8	5	7	11	7	9	10	6	6	31	33	41	31	28	24	21	19	24	41	5	17
16	15	21	11	16	14	9	7	7	37	11	15	18	29	24	16	16	15	14	23	25	19	17	18	10	24	37	7	17
17	8	10	7	7	5	4	4	9	28	13	33	43	35	24	20	26	30	26	31	29	29	21	19	19	24	43	4	21
18	23	15	10	9	9	7	4	16	68	74	108	121	86	48	NA	cal	29	30	33	32	27	27	25	22	22	121	4	37
19	25	22	16	12	1	6	13	cal	cal	cal	cal	cal	cal	37	67	67	66	66	66	68	58	40	35	44	18	68	6	39
20	36	22	11	11	26	12	40	44	53	50	47	43	43	44	45	47	39	36	29	28	25	25	22	22	24	53	22	35
21	29	14	11	29	26	21	23	29	16	46	41	40	16	23	33	29	48	34	31	29	31	29	23	21	24	48	21	30
22	17	17	16	11	12	12	12	18	37	29	26	31	36	29	22	21	27	23	24	24	22	20	15	14	24	37	11	21
23	12	13	13	10	10	8	10	12	12	20	20	16	15	13	17	22	21	22	22	20	20	20	14	12	24	[illegible]	8	16
24	.. not available ..																											
25	.. not available ..																											
26	.. not available ..																											
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	15	15	16	15	16	21	20	25	25	28	28	30	34	19	19	15	14	15	22
28	23	17	13	13	11	12	13	17	18	31	42	33	31	27	26	33	37	41	31	23	31	23	15	10	24	42	10	23
29	21	18	17	14	16	8	9	15	14	11	11	11	6	6	6	14	13	10	13	13	9	9	9	10	24	21	6	12
30	7	7	8	8	5	3	3	4	4	7	9	10	21	13	28	23	25	33	34	30	28	25	15	11	24	34	3	16
	15	11	10	9	[illegible]	8	9	14	22	25	28	27	25	24	23	22	23	25	26	22	19	18	15	14				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] ELEMENTARY SCHOOL - [illegible]
[illegible] 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	7	7	6	4	5	5	5	6	6	6	4	4	12	7	6	9	15	10	8	7	6	11	9	12	24	15	4	7
2	13	17	12	11	10	7	9	12	11	9	9	9	9	8	8	9	21	7	10	10	12	13	15	14	24	21	7	11
3	13	13	13	41	53	53	49	29	18	18	17	16	16	49	58	44	25	48	46	46	46	46	53	53	24	58	13	35
4	42	42	41	30	31	34	45	49	16	12	11	12	12	12	11	9	10	9	6	6	6	8	6	6	24	49	6	18
5	9	9	8	8	14	14	15	21	21	24	18	18	15	12	15	15	13	16	18	18	14	13	11	11	24	24	8	14
6	8	12	11	10	10	9	12	15	15	22	14	33	27	27	29	25	14	21	23	32	34	25	24	30	24	34	8	21
7	61	57	57	57	56	57	56	53	54	61	51	46	44	38	cal	54	53	40	44	43	55	60	51	51	23	61	38	51
8	49	42	35	25	29	26	25	27	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	49	22	31
9			.. not available																									
10	NA	NA	NA	NA	NA	7	9	10	16	26	21	23	22	16	14	9	10	NA	NA	NA	NA	NA	NA	NA	12	26	7	15
11	NA	NA	NA	NA	NA	NA	17	45	45	39	25	26	18	6	0	2	3	0	NA	NA	NA	NA	NA	NA	12	45	0	19
12	NA	NA	NA	NA	NA	7	12	22	42	54	49	34	22	3	13	4	8	13	7	4	5	5	5	7	19	54	3	16
13	4	4	4	5	5	23	17	28	16	39	19	cal	cal	26	15	14	22	21	17	18	5	6	6	8	22	39	4	17
14	6	6	6	9	9	9	33	23	21	140	27	54	12	7	5	11	20	13	11	8	9	12	8	7	24	140	5	27
15	9	9	15	14	12	10	9	8	7	11	9	13	9	12	25	24	24	21	21	15	11	10	10	9	24	25	7	13
16	11	15	15	14	13	15	14	16	19	21	17	27	11	13	13	10	10	15	13	16	14	13	13	9	24	17	9	15
17	9	9	9	12	14	cal	cal	cal	cal	cal	NA	NA	NA	NA	27	36	36	26	27	12	36	25	25	24	15	36	9	23
18	12	13	12	11	11	13	13	15	33	71	115	101	129	136	75	7	31	22	19	20	20	20	24	35	24	136	11	40
19	27	26	23	20	19	19	19	23	35	32	45	50	42	32	29	39	56	50	53	40	36	31	28	28	24	56	19	33
20	24	27	27	24	21	24	28	cal	cal	cal	35	33	27	24	27	27	27	23	19	20	19	19	18	18	21	35	18	24
21	25	24	24	24	20	20	20	27	31	39	33	35	31	36	46	45	32	20	17	23	22	20	20	29	24	46	17	27
22	17	20	20	19	21	24	24	24	34	34	35	35	41	63	71	69	56	59	51	34	34	30	28	26	24	71	17	35
23	24	24	22	22	22	22	19	19	24	31	42	57	50	29	36	42	36	34	32	31	28	26	25	22	24	57	19	29
24	20	20	17	16	16	18	21	23	26	50	39	63	100	85	64	47	34	32	32	32	31	31	30	22	24	100	16	39
25	16	11	11	11	12	11	12	25	25	31	53	160	169	175	141	95	72	52	37	39	31	22	18	18	24	175	11	51
26	14	13	13	13	13	13	13	15	19	20	cal	cal	18	15	15	14	14	14	14	14	14	15	14	12	22	20	12	14
27	5	5	5	6	6	6	7	7	8	6	7	7	7	7	15	15	19	27	24	21	21	25	40	32	24	40	5	14
28	13	16	14	14	13	11	11	11	11	15	23	28	32	26	25	32	13	25	21	19	13	13	10	10	24	33	10	19
29	13	8	6	6	10	10	8	5	5	6	7	7	9	8	7	8	8	8	8	7	7	7	6	6	24	10	5	7
30	6	7	9	9	9	7	10	10	10	10	9	11	10	14	40	47	26	14	14	14	13	11	11	7	24	47	6	13

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] LIONS GATE SEWAGE TREATMENT PLANT - WEST VAN.
SEPT. 1979

POLLUTANT: Nitrogen Dioxide (ppm x 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	22	17	10	9	17	11	16	17	25	20	14	21	24	10	22	37	17	15	13	14	15	18	14	21	24	37	9	17
2	22	18	18	13	13	14	10	10	9	9	7	17	19	20	19	19	19	27	32	29	28	27	26	23	24	32	7	19
3	12	18	17	18	12	14	20	19	18	16	12	12	12	12	14	18	17	22	29	31	32	28	24	20	24	32	12	19
4	14	10	10	10	9	15	16	27	22	17	21	21	24	24	21	22	22	24	24	21	20	23	16	32	24	32	9	19
5	21	17	14	13	9	11	18	20	23	23	21	19	17	17	23	21	25	20	32	26	25	22	12	13	24	32	9	19
6	17	13	10	9	9	9	13	15	15	22	24	26	30	cal	20	28	26	25	25	27	26	22	17	17	23	30	9	19
7	16	13	18	18	18	16	24	29	62	61	43	52	58	58	81	74	74	54	20	32	28	29	22	17	24	81	16	36
8	18	17	18	11	10	8	13	19	19	16	17	15	18	21	22	25	25	29	28	26	25	23	22	23	24	29	8	20
9	25	25	26	20	23	21	16	16	16	16	14	12	22	26	25	16	9	16	12	22	21	17	15	10	24	26	9	19
10	10	8	8	8	16	7	9	14	19	22	12	8	8	8	8	6	4	7	13	21	17	16	12	9	24	22	4	11
11	7	6	6	7	7	5	10	19	21	19	12	8	9	10	10	10	10	16	16	16	16	16	17	16	24	21	5	12
12	19	14	10	9	12	12	17	38	35	37	39	5	9	7	7	7	7	12	16	19	15	24	19	11	24	39	5	17
13	15	17	12	17	16	14	16	29	63	99	cal	18	19	16	17	18	18	20	27	29	33	18	33	29	23	99	12	26
14	15	18	23	24	24	19	29	47	68	91	105	79	66	43	37	32	41	59	52	56	54	53	44	38	24	105	13	46
15	36	36	33	29	27	26	30	19	20	33	30	24	21	26	33	30	33	28	34	36	36	36	33	33	24	36	18	29
16	35	33	32	33	29	18	26	24	37	36	28	21	18	20	22	24	26	19	30	31	25	24	22	22	24	37	18	26
17	[illegible]	16	12	12	13	13	18	26	31	46	28	21	15	12	15	15	14	23	28	32	27	25	23	23	24	46	12	21
18	21	20	20	19	16	15	11	40	58	53	15	10	cal	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	58	10	26
19	.. not available ..																											
20	.. not available ..																											
21	.. not available ..																											
22	.. not available ..																											
23	.. not available ..																											
24	.. not available ..																											
25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8	21	24	44	55	56	41	41	38	24	26	11	58	8	32
26	21	21	18	31	33	32	31	33	36	17	28	28	27	27	25	28	28	29	38	33	33	31	26	22	24	37	21	27
27	21	26	13	13	13	18	20	20	23	23	26	26	27	27	27	27	29	27	37	26	22	22	12	6	24	39	6	21
28	[illegible]	7	7	10	14	19	19	19	22	37	40	17	16	9	15	12	17	25	17	12	20	20	21	23	24	46	7	20
29	[illegible]	21	19	21	22	13	20	23	23	24	27	24	1[illegible]	[illegible]	25	19	24	25	24	25	25	23	23	21	24	28	13	[illegible]
30	19	15	11	11	11	11	16	29	22	16	35	31	35	33	22	25	29	33	41	36	33	31	29	19	24	41	11	25
	21	18	17	16	16	15	18	24	29	32	26	22	21	21	25	24	25	26	26	29	28	26	22	21				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

[illegible] ROCKY POINT PARK - PORT MOODY
SEPT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	.. not available ..																											
2	.. not available ..																											
3	.. not available ..																											
4	.. not available ..																											
5	.. not available ..																											
6	.. not available ..																											
7	.. not available ..																											
8	.. not available ..																											
9	.. not available ..																											
10	.. not available ..																											
11	.. not available ..																											
12	.. not available ..																											
13	.. not available ..																											
14	.. not available ..																											
15	.. not available ..																											
16	.. not available ..																											
17	.. not available ..																											
18	.. not available ..																											
19	.. not available ..																											
20	UA	UA	UA	UA	UA	UA	UA	UA	UA	UA	UA	cal	39	39	39	39	37	31	19	27	27	37	29	30	12	39	27	33
21	15	31	31	29	26	28	28	43	43	44	42	39	38	60	59	58	46	51	48	49	43	35	33	33	24	60	28	39
22	27	25	24	22	22	20	20	26	34	34	38	39	47	70	64	57	64	62	55	43	37	23	28	26	24	70	20	37
23	21	22	21	22	23	25	25	32	22	28	56	52	42	38	33	47	45	47	47	39	33	32	31	29	24	55	21	33
24	20	20	21	24	25	23	30	30	33	46	84	98	92	67	53	58	56	64	57	50	40	38	33	33	24	98	20	45
25	33	30	27	26	25	24	23	29	56	68	97	156	155	164	118	128	119	82	67	67	65	31	29	29	24	164	23	68
26	25	31	28	29	28	33	35	36	cal	cal	33	30	26	28	29	24	26	28	29	27	25	25	25	24	22	36	24	29
27	22	31	19	18	20	20	18	19	26	30	36	31	39	33	28	35	30	36	33	32	36	37	38	36	24	38	18	28
28	33	23	24	22	25	28	27	30	29	29	29	37	35	33	52	43	45	63	61	48	38	36	30	30	24	63	22	35
29	33	27	23	21	21	23	19	21	30	30	39	23	23	25	23	29	32	34	33	30	28	24	23	23	24	39	18	26
30	23	20	19	17	17	15	15	17	19	19	25	19	18	34	42	41	44	50	53	43	44	37	33	30	24	51	15	28
	27	26	24	21	24	24	26	27	12	16	48	52	50	54	50	50	50	50	47	42	38	33	31	30				

TABLE B1-2

AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

10 1288 HASTINGS STREET - PORT COQUITLAM
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	14	4	3	3	9	4	9	10	5	4	4	11	14	9	5	15	30	14	18	20	24	24	22	23	24	30	3	12
2	21	18	10	15	14	6	5	4	3	4	7	14	5	5	8	10	6	22	27	30	20	14	18	24	24	30	3	13
3	17	14	11	15	13	12	15	16	13	17	21	22	25	25	26	26	36	29	17	11	11	13	17	17	24	36	11	18
4	9	5	10	12	12	12	13	21	11	11	26	18	24	13	13	14	14	14	18	18	25	23	25	13	24	26	5	15
5	20	20	14	14	17	17	27	30	23	21	13	10	11	13	13	12	27	46	41	22	21	NA	NA	NA	21	46	10	20
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9			.. not available ..																									
10			.. not available ..																									
11			.. not available ..																									
12			.. not available ..																									
13			.. not available ..																									
14			.. not available ..																									
15			.. not available ..																									
16			.. not available ..																									
17			.. not available ..																									
18			.. not available ..																									
19			.. not available ..																									
20	50	43	41	40	38	37	36	42	44	NA	NA	41	40	31	24	51	30	23	31	28	25	33	32	26	22	51	23	35
21	23	23	25	27	20	23	27	cal	cal	cal	cal	cal	cal	cal	54	49	47	39	38	29	20	16	12	11	17	54	11	28
22	16	11	11	11	11	8	8	11	25	25	26	28	30	49	58	59	55	53	40	30	18	15	15	10	24	59	8	26
23	11	12	14	17	14	15	15	18	29	36	36	37	37	37	38	41	48	43	36	31	22	14	14	14	24	48	11	26
24	12	10	23	25	21	17	14	15	22	37	57	98	91	71	59	51	51	43	42	39	27	26	25	28	24	98	10	37
25	24	17	17	15	14	15	13	49	50	42	50	86	89	77	67	56	51	47	31	31	31	22	18	14	24	89	14	39
26	22	20	16	13	12	17	17	17	15	21	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	23	12	17
27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35	22	21	31	36	38	38	32	33	33	29	30	12	38	21	30
28	26	24	21	20	20	17	17	20	31	33	35	40	53	47	47	45	58	45	27	23	17	14	17	21	24	58	14	29
29	24	22	21	19	17	17	18	18	21	16	24	23	15	21	15	15	14	16	24	20	22	20	19	19	24	24	14	19
30	18	13	13	11	11	10	9	15	13	25	24	26	31	27	46	54	52	50	26	22	19	22	22	19	24	54	9	24
	21	17	17	17	16	15	18	20	22	23	27	35	36	32	33	35	37	35	30	26	22	21	21	20				

TABLE B1-3

E T-1 B.C. HYDRO - SMYTHE AND HORNBY - VAN.
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	15	15	14	14	14	7	5	7	5	11	20	11	32	32	23	28	31	29	30	35	33	27	19	19	24	35	5	20
2	13	10	13	15	23	17	11	8	17	29	cal	22	24	24	20	23	24	26	27	20	21	23	16	16	23	29	8	19
3	17	15	14	25	25	25	13	28	46	99	60	37	47	33	47	56	51	56	44	47	43	40	32	24	24	99	14	39
4	27	25	28	26	26	25	23	24	28	40	54	48	69	75	63	53	30	35	34	33	33	29	25	22	24	75	22	36
5	23	20	25	23	23	17	9	13	36	69	86	55	34	34	30	26	29	27	26	19	23	21	26	21	24	86	9	29
6	19	18	22	25	23	23	20	23	42	74	78	62	59	59	70	64	38	34	32	27	25	32	27	24	24	78	18	39
7	20	19	26	26	26	25	26	28	31	34	38	42	42	39	44	46	43	49	50	41	46	44	41	38	24	50	19	36
8	40	30	29	34	31	27	27	19	26	21	16	15	21	18	20	22	21	20	22	22	23	20	17	9	24	40	9	23
9	8	12	9	16	16	13	8	9	46	66	80	72	54	63	58	41	20	21	19	15	24	24	21	14	24	80	8	30
10	22	18	18	21	26	18	19	26	35	106	104	124	97	60	90	76	74	62	33	33	35	32	40	41	24	124	18	50
11	24	35	30	35	43	27	23	45	41	76	68	73	43	65	65	74	60	35	30	38	26	27	31	23	24	76	23	36
12	27	32	33	31	24	23	21	23	72	63	68	74	114	72	77	69	64	60	66	56	57	51	44	45	24	114	21	49
13	[illegible]	18	30	28	25	27	14	18	19	19	23	20	[illegible]	25	[illegible]	32	20	19	20	21	18	21	19	18	24	33	18	24
14	20	18	18	19	15	19	19	19	16	16	16	16	17	19	13	16	18	19	19	19	20	18	17	12	24	20	12	17
15	15	16	14	14	13	12	8	14	13	14	15	26	31	28	16	21	22	22	22	23	22	21	20	18	24	31	8	18
16	13	17	16	16	16	17	15	13	10	11	19	20	24	22	24	26	28	25	24	24	24	27	26	24	24	28	10	20
17	15	15	16	15	12	11	9	5	15	19	24	26	29	31	33	36	36	35	29	24	19	17	14	14	24	36	5	20
18	9	12	13	13	15	15	13	20	20	21	cal	25	26	24	25	25	26	32	26	24	23	22	22	22	23	32	9	20
19	23	23	24	23	23	23	16	22	26	29	26	26	26	28	27	27	23	22	19	20	27	25	24	20	24	29	16	23
20	27	27	25	26	29	25	21	19	19	20	20	22	22	22	23	22	23	24	15	14	13	15	8	13	24	29	8	20
21	8	21	17	21	21	21	21	20	25	21	20	22	23	27	30	29	23	27	25	24	25	23	25	27	24	30	8	23
22	21	15	13	14	14	24	24	23	26	26	25	28	cal	27	28	26	26	28	28	29	26	25	27	23	23	29	13	23
23	22	22	20	21	22	22	15	15	22	22	23	29	28	22	22	18	17	17	20	21	21	19	16	16	24	29	15	20
24	17	26	21	22	19	20	21	14	19	31	31	32	33	32	33	25	23	27	27	25	25	26	26	24	24	33	14	25
25	25	23	23	18	20	21	18	16	20	29	27	25	26	24	26	26	25	25	26	21	20	19	16	15	24	29	15	22
26	16	16	13	14	14	22	26	16	17	21	22	27	29	31	32	25	30	28	27	28	28	29	30	29	24	32	13	23
27	24	25	25	26	24	27	26	27	27	28	26	27	26	26	27	27	29	32	31	29	27	30	23	21	24	32	21	26
28	25	24	24	25	24	17	13	19	16	17	14	13	13	8	11	8	6	9	6	5	9	5	4	16	24	25	4	14
29	12	16	18	17	14	18	16	13	7	15	21	22	21	23	24	22	20	19	18	17	15	16	16	14	24	24	7	17
30	19	16	15	16	16	22	21	13	5	8	17	20	21	cal	24	21	19	20	21	17	24	20	21	21	23	24	5	19
31	25	22	22	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	25	19	19
	21	21	20	21	21	20	18	19	24	35	37	36	37	34	35	33	31	30	27	25	26	25	23	21				

TABLE B1-3

1-2 2294 WEST 10TH. AVE. - VAN.
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	27	27	23	25	17	18	18	24	25	25	25	35	35	NA	35	35	45	31	28	28	33	32	31	24	23	45	17	28
2	25	25	20	25	26	26	26	35	NA	62	25	18	17	17	22	26	28	30	33	30	39	39	34	29	23	62	17	28
3	18	18	18	20	20	25	25	cal	cal	70	32	27	27	24	43	45	38	48	62	49	42	42	38	46	22	78	18	35
4	47	49	44	38	33	32	37	57	65	51	48	60	67	67	53	44	37	37	34	31	31	31	30	31	24	67	30	43
5	37	30	24	22	23	22	30	51	59	63	47	30	28	27	27	26	24	27	32	29	29	30	30	29	24	63	22	32
6	27	30	33	35	35	27	26	48	50	75	65	53	50	43	43	38	31	30	31	31	33	33	31	31	24	75	26	33
7	35	50	45	37	36	32	31	30	28	31	29	25	25	24	35	30	36	37	38	37	34	37	38	39	24	50	24	33
8	33	26	15	16	16	17	14	17	16	11	7	9	9	9	9	12	14	17	23	23	22	21	19	16	24	33	7	16
9	16	16	13	13	14	16	30	53	100	91	108	72	51	51	30	30	29	25	25	24	28	34	34	31	24	108	13	38
10	26	23	21	17	25	26	44	85	102	102	93	71	54	53	44	52	50	43	33	48	56	55	58	57	24	102	17	50
11	51	55	43	39	34	31	35	43	45	45	53	49	37	46	33	38	34	35	37	37	38	53	51	56	24	56	31	42
12	52	48	43	32	41	51	51	54	79	93	105	119	cal	89	87	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	119	32	65
13			.. not available ..																									
14			.. not available ..																									
15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33	31	32	36	36	34	33	33	35	36	35	32	32	14	36	31	33
16	24	24	24	22	22	22	21	21	21	32	37	38	31	30	26	30	31	36	35	32	32	31	29	23	24	38	21	28
17	25	24	20	20	20	20	20	32	43	43	38	37	35	35	39	49	52	47	43	35	33	31	29	26	24	52	20	33
18	22	22	22	19	20	23	31	36	36	36	36	cal	cal	29	29	27	26	27	27	26	22	22	21	18	22	36	18	26
19	21	21	20	18	18	15	21	24	27	32	32	28	25	24	26	29	29	24	23	22	25	26	22	19	24	32	15	23
20	23	23	19	19	19	18	18	18	18	20	15	15	14	11	10	9	13	19	19	19	19	18	20	25	24	25	9	17
21	19	19	17	14	14	14	16	17	17	13	13	18	18	19	19	29	31	26	24	23	25	25	24	22	24	31	13	20
22	14	7	4	4	4	22	27	29	29	29	29	30	30	26	26	28	29	29	29	24	20	25	28	26	24	30	4	22
23	21	16	12	10	19	26	26	cal	35	35	39	40	33	39	39	38	35	33	32	32	32	30	20	15	23	40	10	28
24	16	22	24	21	23	25	33	34	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	34	16	24
25			.. not available ..																									
26			.. not available ..																									
27			.. not available ..																									
28			.. not available ..																									
29			.. not available ..																									
30			.. not available ..																									
31			.. not available ..																									
	28	27	24	22	23	24	28	37	44	45	43	41	33	35	34	33	32	32	32	31	32	33	31	30				

TABLE B1-3

T-4 KENSINGTON PARK - BURNABY
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
2			.. not available ..																									
3			.. not available ..																									
4			.. not available ..																									
5			.. not available ..																									
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9			.. not available ..																									
10			.. not available ..																									
11			.. not available ..																									
12			.. not available ..																									
13			.. not available ..																									
14			.. not available ..																									
15			.. not available ..																									
16			.. not available ..																									
17			.. not available ..																									
18			.. not available ..																									
19			.. not available ..																									
20			.. not available ..																									
21			.. not available ..																									
22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	33	33	33	35	32	31	30	25	21	9	35	21	29
23	21	17	17	16	13	22	27	26	31	33	29	NA	23	21	21	22	21	19	17	9	19	19	20	17	23	33	9	21
24	17	19	15	20	20	35	31	NA	27	29	32	33	22	28	26	26	26	26	19	18	21	20	19	9	23	35	9	23
25	10	8	7	13	10	24	21	24	26	26	21	23	17	17	19	19	22	22	23	15	13	11	9	10	24	26	7	17
26	9	8	8	7	7	11	18	25	26	26	28	32	32	31	32	28	28	27	28	27	27	31	29	27	24	32	7	22
27	26	26	20	20	21	19	16	25	26	26	29	26	30	22	20	25	27	30	31	28	27	26	30	30	24	31	16	25
28	19	18	22	23	20	17	13	21	21	22	21	23	25	24	21	26	29	28	26	25	24	21	20	15	24	29	15	22
29	10	7	7	6	6	5	5	5	4	4	3	4	4	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	10	3	5
30			.. not available ..																									
31			.. not available ..																									
	16	15	14	15	16	19	20	21	23	24	23	24	22	21	23	26	27	26	26	22	23	23	22	19				

TABLE B1-3

T-5 CONFEDERATION PARK - BURNABY
OCT. 1976

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	21	15	15	15	15	15	16	16	19	23	26	36	35	41	54	52	46	42	33	33	38	36	30	28	24	54	15	29
2	24	21	17	17	14	11	16	18	18	21	55	42	15	15	15	23	23	27	29	25	33	25	20	22	24	55	11	22
3	22	22	19	21	22	22	19	cal	cal	39	71	25	111	80	70	97	87	82	74	49	39	38	36	32	22	111	19	51
4	34	29	28	30	31	28	22	19	35	36	30	31	35	35	46	62	65	48	32	29	34	31	30	22	24	65	19	33
5	25	25	23	21	18	13	15	16	43	54	53	97	85	47	32	32	34	31	27	23	19	19	9	13	24	97	9	32
6	13	10	19	18	15	15	15	14	19	37	41	44	53	59	38	38	42	33	25	25	20	15	17	11	24	59	10	26
7	9	9	9	11	11	11	9	6	13	19	20	18	19	18	17	19	19	30	28	20	16	13	16	17	24	30	6	15
8	15	14	13	13	9	9	9	6	6	11	13	13	9	9	7	7	11	11	9	5	4	5	6	8	24	15	4	9
9	4	4	2	5	5	5	4	0	0	16	10	10	9	16	17	17	19	11	6	5	4	3	9	11	24	19	0	8
10	2	2	2	5	2	5	4	0	2	30	41	28	41	61	50	46	41	35	12	16	31	25	19	5	24	61	0	22
11	6	21	23	24	26	28	27	[illegible]	11	30	53	48	42	42	48	48	43	44	43	42	17	27	34	9	24	53	0	33
12	29	14	11	14	13	5	11	10	cal	73	29	130	172	198	183	132	114	93	84	75	67	69	66	57	23	198	5	73
13	[illegible]	43	13	33	46	36	29	25	43	33	20	18	22	27	32	35	32	26	23	25	24	22	19	19	24	46	13	27
14	22	19	19	18	19	19	13	15	16	16	19	20	18	16	24	21	25	26	20	25	23	21	21	20	24	26	13	19
15	18	19	19	23	18	17	15	15	11	18	23	34	34	40	43	39	45	40	37	33	23	25	14	11	24	45	11	25
16	10	14	16	16	25	27	24	24	25	23	20	16	24	29	22	31	45	49	43	37	31	25	24	24	24	49	10	26
17	23	26	17	19	19	14	13	15	17	21	30	26	29	26	32	46	64	62	42	21	23	20	28	35	24	64	13	27
18	35	27	27	19	13	14	18	21	18	15	11	19	16	16	11	11	19	19	20	13	11	6	6	7	24	35	6	15
19	9	8	6	5	3	8	23	cal	27	25	20	13	10	9	8	9	10	9	28	23	5	4	4	5	23	28	3	11
20	7	5	12	15	32	31	22	15	11	11	16	16	16	21	21	27	29	32	32	31	25	30	30	27	24	32	5	21
21	31	27	26	22	18	18	18	16	16	21	23	18	18	14	14	9	9	9	9	6	6	8	10	11	24	31	6	15
22	11	11	9	6	8	5	8	21	27	26	25	24	26	22	36	36	38	38	36	38	37	31	29	25	24	38	5	24
23	16	19	17	17	12	20	36	39	27	25	12	12	12	8	9	16	13	12	9	8	8	8	8	7	24	39	7	15
24	7	7	6	16	25	30	24	30	38	67	69	40	13	10	19	10	9	12	11	12	13	11	11	26	24	69	6	21
25	14	15	11	14	15	13	24	39	33	13	27	26	22	20	24	27	27	30	30	22	20	18	13	13	24	39	11	22
26	11	10	9	9	8	11	26	cal	cal	23	27	27	24	23	23	29	34	33	33	26	31	26	24	23	22	34	8	22
27	32	29	26	28	26	30	30	26	24	33	33	33	37	31	27	33	38	38	35	32	32	28	44	40	24	44	24	31
28	37	30	21	15	15	21	18	23	15	14	16	22	20	16	15	12	19	21	24	17	15	14	12	17	24	37	12	18
29	20	13	13	12	10	[illegible]	11	13	14	14	14	21	22	22	24	11	31	39	35	27	25	17	13	22	24	39	9	20
30	19	19	15	7	7	5	9	17	21	29	35	43	53	48	49	50	44	41	37	32	31	29	29	27	24	53	5	29
31	23	21	15	22	22	25	23	24	28	37	53	56	40	37	28	27	31	31	23	24	27	25	25	25	24	59	15	29
	19	18	16	17	17	17	18	17	20	27	33	34	35	34	34	34	36	34	31	27	24	22	21	20				

TABLE B1-3

7-6 75 RIVERSIDE DRIVE - NORTH VAL.
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm x 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	13	13	13	12	[illegible]	6	15	15	19	31	31	34	37	45	68	[illegible]	61	61	60	33	27	23	16	13	24	68	6	25
2	17	14	13	7	6	12	17	18	17	13	41	39	33	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	41	6	19
3			.. not available ..																									
4			.. not available ..																									
5			.. not available ..																									
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	[illegible]	104	[illegible]	76	73	[illegible]	44	[illegible]	[illegible]	[illegible]	29	33	36	13	104	26	57
10	[illegible]	[illegible]	12	11	11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	144	172	cal	137	71	[illegible]	79	44	[illegible]	40	40	31	24	23	172	11	57
11	[illegible]	13	13	13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	93	67	[illegible]	[illegible]	68	17	36	16	33	25	14	24	24	93	13	33
12	21	21	11	11	11	11	13	[illegible]	[illegible]	[illegible]	[illegible]	112	116	138	106	66	74	71	71	71	63	61	32	50	24	138	11	58
13	[illegible]	[illegible]	[illegible]	41	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	55	36	32	36	26	25	25	22	22	24	55	13	29
14	[illegible]	19	17	17	14	14	15	15	14	13	19	19	13	19	20	19	18	18	18	19	19	17	17	14	24	20	13	17
15	16	19	11	13	11	10	9	4	6	6	13	23	26	33	38	30	30	28	25	24	23	22	16	16	24	38	4	18
16	11	11	11	10	7	7	11	14	14	15	27	26	18	17	23	24	26	26	26	21	20	17	15	7	24	28	7	16
17	6	7	6	6	6	[illegible]	6	6	5	10	13	17	16	18	21	31	39	41	33	26	20	14	13	13	24	41	6	16
18	15	15	12	11	12	7	7	9	12	17	12	cal	cal	22	22	22	22	[illegible]	20	[illegible]	15	15	13	11	22	22	7	14
19	9	[illegible]	8	5	3	[illegible]	15	33	37	12	24	[illegible]	17	12	12	12	14	15	12	13	15	11	3	10	24	37	3	14
20	5	5	5	6	6	5	7	[illegible]	6	11	19	14	19	16	8	9	11	14	16	13	11	9	9	7	24	19	5	9
21	[illegible]	7	11	11	12	10	13	[illegible]	8	[illegible]	10	7	[illegible]	7	6	5	[illegible]	12	[illegible]	7	7	[illegible]	4	[illegible]	24	13	1	8
22	4	[illegible]	7	7	5	4	8	11	11	15	15	15	15	18	21	[illegible]	[illegible]	22	14	19	19	15	12	11	24	23	4	13
23	[illegible]	[illegible]	[illegible]	12	11	[illegible]	10	14	16	21	15	15	13	13	17	14	14	12	10	9	[illegible]	[illegible]	[illegible]	[illegible]	24	21	8	12
24	[illegible]	[illegible]	7	13	11	11	[illegible]	6	7	5	6	[illegible]	cal	cal	26	25	10	12	12	16	9	[illegible]	11	[illegible]	22	26	5	11
25	[illegible]	[illegible]	14	9	10	15	16	21	38	36	39	33	41	37	33	19	36	29	25	27	27	25	22	13	24	41	9	26
26	[illegible]	10	13	14	10	[illegible]	10	13	28	27	26	[illegible]	22	25	26	[illegible]	26	30	35	30	26	23	[illegible]	[illegible]	24	35	10	29
27	[illegible]	[illegible]	[illegible]	27	[illegible]	12	11	16	17	19	[illegible]	23	33	31	24	[illegible]	19	31	36	32	26	25	24	24	24	36	12	22
28	[illegible]	[illegible]	27	[illegible]	[illegible]	10	[illegible]	[illegible]	14	15	15	[illegible]	11	14	17	14	14	12	11	15	[illegible]	18	19	19	24	27	8	15
29	16	14	7	[illegible]	1	1	[illegible]	[illegible]	12	17	24	[illegible]	[illegible]	22	23	cal	22	21	17	13	[illegible]	[illegible]	9	10	23	32	1	13
30	[illegible]	9	11	7	5	5	6	25	35	37	40	45	39	46	56	43	16	26	21	16	18	18	15	18	24	56	5	24
31	11	11	11	5	[illegible]	[illegible]	9	16	31	38	46	41	33	25	22	23	39	27	20	17	17	14	14	21	24	45	5	20
	15	14	13	12	11	11	13	16	22	29	30	36	39	31	36	33	31	29	27	25	22	29	17	17				

TABLE B1-3

T-7 ANMORE ELEMENTARY SCHOOL - ANMORE
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm × 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	7	7	6	5	5	5	6	7	15	18	14	16	16	19	21	56	62	40	29	26	20	17	13	12	24	62	5	18
2	9	9	9	9	9	10	19	20	18	20	39	53	30	16	15	16	28	20	18	16	12	5	6	7	24	53	5	17
3	7	7	7	7	7	57	75	60	67	79	110	77	106	NA	NA	93	64	22	33	23	20	20	20	28	22	110	7	44
4	41	30	27	25	23	24	25	27	40	38	35	35	39	47	57	60	94	74	57	46	43	42	32	28	24	94	23	40
5	33	32	27	30	31	32	34	78	72	37	126	118	146	146	97	51	51	42	41	30	27	21	21	15	24	146	15	57
6	22	23	23	23	25	24	31	36	47	40	50	79	106	142	109	64	51	31	27	26	22	19	17	22	24	142	17	44
7	21	20	19	19	17	20	20	32	46	47	49	81	82	75	64	63	61	55	44	44	34	29	28	32	24	82	17	41
8	26	24	20	18	18	18	23	21	35	75	66	61	42	33	33	33	32	32	31	27	26	24	21	17	24	75	17	31
9	14	16	16	16	16	16	32	42	55	65	68	85	91	110	121	98	67	78	70	59	47	43	37	30	24	121	14	54
10	26	23	22	17	15	15	15	16	28	49	79	121	78	109	149	151	138	119	101	72	55	52	49	40	24	151	15	63
11	38	39	46	40	33	31	38	32	59	73	133	178	171	95	86	59	68	63	52	57	30	27	26	23	24	170	23	69
12	27	21	22	23	23	23	23	36	64	92	114	181	181	NA	NA	245	200	145	129	72	64	73	66	65	22	245	21	84
13	57	60	55	53	52	51	51	50	54	55	43	39	38	55	40	28	74	61	61	68	73	55	41	37	24	74	27	52
14	49	44	42	35	39	38	37	29	27	25	25	25	36	40	40	53	53	48	43	33	33	23	23	32	24	53	23	36
15	46	38	33	30	22	22	13	16	23	29	29	44	45	40	43	52	50	41	31	27	22	21	20	14	24	52	14	31
16	14	14	14	14	12	14	19	31	23	20	16	27	22	27	31	36	49	29	23	28	28	20	13	12	24	49	12	22
17	12	12	14	15	15	16	21	20	21	26	21	18	27	26	26	26	37	28	18	13	13	14	13	12	24	37	12	19
18	8	9	16	16	13	16	22	23	16	15	15	NA	NA	NA	11	12	13	12	13	11	10	8	8	12	21	23	8	13
19	9	11	11	16	19	16	12	12	17	16	19	20	cal	9	9	9	9	9	17	9	9	6	6	6	23	20	6	12
20	6	6	5	5	5	7	8	9	17	17	13	15	20	20	24	18	18	18	17	17	13	13	12	12	24	24	5	13
21	12	13	15	13	11	10	8	13	13	11	11	9	9	6	6	6	12	12	13	10	8	2	2	2	24	15	2	9
22	8	7	6	7	7	7	9	10	10	8	8	10	11	11	11	11	19	23	19	18	14	10	10	8	24	23	6	11
23	7	7	7	7	7	7	7	7	7	8	8	8	9	8	7	7	7	6	4	5	5	5	4	4	24	8	4	6
24	0	0	0	0	3	8	7	7	7	15	19	11	7	0	2	4	6	8	8	7	7	6	6	5	24	19	0	7
25	3	3	3	1	4	5	6	6	7	13	13	12	10	10	6	10	11	13	13	13	10	8	7	7	24	13	1	8
26	5	5	3	3	3	4	4	6	6	8	9	9	9	10	cal	18	31	33	27	26	23	23	20	18	23	33	3	13
27	19	19	17	17	17	17	17	18	19	19	23	29	28	39	25	22	30	28	23	23	23	23	26	26	24	30	17	22
28	30	23	23	23	22	20	19	18	17	17	18	22	21	18	18	18	18	22	16	20	17	16	16	17	24	30	16	19
29	13	13	13	13	13	13	13	14	16	19	cal	40	26	17	22	25	25	23	23	21	21	21	19	18	23	40	13	19
30	15	14	11	10	9	12	18	19	17	42	35	49	64	66	96	98	63	30	24	22	19	15	15	15	24	98	9	32
31	14	8	8	9	10	10	13	16	13	18	64	78	97	77	62	54	42	44	41	40	35	23	23	20	24	97	8	34
	19	18	17	17	17	18	21	24	28	35	43	52	54	45	44	49	49	39	35	29	25	22	20	19				

TABLE B1-3

T-8 LIONS GATE SEWAGE TREATMENT PLANT - WEST VAN.
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm x 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	16	16	14	11	11	17	20	21	21	19	22	38	37	16	16	10	21	16	17	27	26	20	17	12	24	38	11	19
2	21	15	14	14	13	12	15	19	29	30	3	9	cal	8	6	5	15	17	13	9	3	5	9	9	23	30	3	13
3	8	10	12	13	17	14	15	19	33	51	27	13	11	8	9	16	15	25	31	33	26	18	13	16	24	51	8	19
4	15	15	17	18	15	15	11	15	59	47	39	39	61	46	21	13	6	15	22	21	15	16	15	13	24	61	6	23
5	9	9	13	13	13	13	12	23	45	45	56	26	7	7	7	7	13	20	19	10	16	14	11	11	24	56	7	18
6	5	5	5	9	13	13	12	23	38	64	68	46	27	35	32	23	15	15	18	21	17	15	11	9	24	68	5	22
7	14	19	20	17	16	16	17	19	23	44	44	42	41	38	37	33	32	29	32	35	29	26	33	32	24	44	14	25
8	37	28	25	16	14	14	13	13	17	17	12	13	14	15	14	11	11	17	17	13	9	7	8	6	24	37	6	15
9	10	7	16	14	7	7	7	18	45	46	41	41	6	9	19	16	16	16	13	13	13	8	13	10	24	48	6	17
10	7	12	15	16	14	13	14	25	40	75	102	61	cal	21	31	31	32	33	31	30	27	26	21	27	23	102	7	30
11	13	15	16	13	14	15	16	22	31	40	30	26	23	27	12	10	18	20	21	24	27	23	23	22	24	40	10	21
12	19	17	16	14	16	20	23	33	46	47	62	73	100	80	63	42	45	62	62	59	59	55	49	65	24	100	14	45
13	45	45	41	19	19	29	28	23	19	22	22	25	29	33	42	43	24	17	20	23	23	19	18	17	24	49	17	28
14	19	19	23	21	21	17	17	17	20	20	17	13	17	14	13	12	12	6	11	12	10	14	16	15	24	23	6	15
15	14	14	12	11	14	11	15	14	11	13	14	9	13	11	13	18	18	26	27	26	23	21	18	22	24	27	9	16
16	11	15	14	13	12	11	13	16	18	23	21	24	25	21	15	19	20	30	20	27	23	22	19	19	24	30	11	18
17	9	9	9	6	6	6	6	6	12	19	20	21	23	27	26	38	37	31	23	20	17	17	17	16	24	38	6	17
18	20	20	13	13	10	7	13	14	13	21	cal	27	30	29	23	23	23	21	23	28	27	22	21	17	23	30	7	20
19	9	9	9	8	11	16	23	23	35	30	25	23	17	13	14	21	22	19	22	21	21	21	20	15	24	35	8	18
20	18	18	21	21	13	13	14	13	11	18	10	7	7	5	7	7	8	15	12	12	7	10	6	8	24	21	5	12
21	14	13	12	12	13	16	11	17	12	17	18	13	11	9	9	12	16	16	13	11	16	10	12	15	24	18	9	13
22	13	12	13	17	14	16	18	26	29	29	29	30	32	12	26	31	38	33	28	27	23	27	26	23	24	38	12	24
23	23	23	25	18	16	18	24	26	35	26	31	24	22	21	22	22	26	26	24	25	18	20	19	17	24	35	16	23
24	17	17	18	15	13	13	15	17	19	22	cal	33	34	34	31	35	32	25	13	26	22	33	13	36	23	36	13	24
25	33	19	19	21	19	16	22	25	27	31	29	23	22	17	17	18	24	28	29	25	21	12	11	11	24	33	11	21
26	11	11	13	14	17	17	28	43	46	30	29	27	33	27	31	33	36	32	31	29	29	33	29	29	24	46	11	27
27	26	23	18	17	17	17	22	24	28	30	32	26	25	21	17	29	21	28	31	29	25	25	21	20	24	32	17	24
28	26	19	17	16	12	8	8	8	16	16	15	21	23	27	25	28	28	23	18	17	17	14	12	12	24	28	8	17
29	16	10	7	6	6	7	9	11	11	17	21	20	19	30	31	35	30	28	18	17	16	22	19	20	24	35	6	18
30	22	17	8	14	8	12	15	23	23	23	32	29	30	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14	32	8	19
31			.. not available ..																									
	18	16	16	15	14	14	16	20	28	31	32	28	27	23	22	23	23	24	23	24	21	20	19	18				

TABLE B1-3

T-9 ROCKY POINT PARK - PORT MOODY
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	24	19	16	16	16	16	14	20	21	30	37	33	32	25	40	71	67	50	47	40	33	32	23	15	24	71	14	30
2	30	24	24	24	25	25	25	23	27	30	45	50	28	29	37	54	51	51	42	33	36	32	32	32	24	54	23	33
3	19	20	20	19	16	16	17	23	59	61	67	98	89	83	114	123	125	129	98	90	78	59	47	47	24	129	16	62
4	43	41	37	34	26	25	25	25	35	40	35	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	43	25	32
5			.. not available ..																									
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9			.. not available ..																									
10			.. not available ..																									
11			.. not available ..																									
12			.. not available ..																									
13			.. not available ..																									
14			.. not available ..																									
15			.. not available ..																									
16			.. not available ..																									
17			.. not available ..																									
18			.. not available ..																									
19			.. not available ..																									
20			.. not available ..																									
21			.. not available ..																									
22			.. not available ..																									
23			.. not available ..																									
24			.. not available ..																									
25			.. not available ..																									
26			.. not available ..																									
27			.. not available ..																									
28			.. not available ..																									
29			.. not available ..																									
30			.. not available ..																									
31			.. not available ..																									
	29	26	24	23	21	21	20	23	36	40	46	54	50	46	63	83	91	77	62	56	49	41	34	33				

TABLE B1-3

T10 3288 HASTINGS STREET - PORT COQUITLAM
OCT. 1979

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1	13	12	12	11	10	8	8	10	12	30	26	25	33	41	52	83	68	48	40	30	18	10	10	10	24	83	8	25
2	12	12	11	10	10	9	20	20	25	39	55	55	47	43	51	54	49	41	24	22	18	18	16	10	24	55	9	27
3	15	13	9	7	8	10	9	24	44	68	92	NA	NA	NA	115	94	100	146	78	35	29	30	38	40	21	146	7	47
4	29	23	18	17	16	16	17	19	32	33	38	38	41	46	60	78	78	90	96	70	45	32	28	17	24	96	16	40
5	17	16	11	11	11	14	15	16	25	33	50	49	77	100	100	81	34	82	60	50	36	31	25	22	24	100	11	41
6	21	19	17	17	17	17	20	22	24	26	40	43	72	85	99	100	90	91	79	57	40	23	24	22	24	100	17	44
7	28	32	32	35	35	27	21	21	28	30	32	37	44	44	43	49	49	49	47	33	21	20	20	20	24	49	20	33
8	19	17	11	10	9	12	13	13	18	20	34	70	47	40	35	42	42	43	41	36	27	27	24	22	24	70	9	29
9	17	15	14	13	11	11	13	22	47	54	58	71	71	69	NA	69	63	93	76	56	44	44	46	33	23	93	11	43
10	23	22	21	18	17	16	15	14	25	42	46	53	61	104	115	34	82	106	79	54	41	24	27	22	24	115	14	46
11	16	16	16	16	13	13	17	20	62	52	69	103	122	123	98	96	103	75	53	45	32	29	28	25	24	123	13	51
12	32	28	28	28	27	27	29	28	31	37	47	52	64	75	75	75	73	55	50	43	40	37	34	29	24	75	27	43
13	26	26	29	29	29	25	25	23	21	22	24	27	35	39	43	43	42	40	32	31	29	28	25	25	24	43	21	29
14	26	25	21	21	21	20	20	19	21	25	23	29	29	26	25	29	30	31	31	27	25	24	21	20	24	31	19	24
15	24	23	22	24	23	23	20	20	25	25	42	40	40	34	34	34	30	26	23	19	19	19	19	19	24	42	19	26
16	18	14	12	14	14	14	13	17	17	17	17	17	20	32	36	41	32	24	21	20	18	17	17	11	24	41	11	20
17	14	11	11	9	9	14	15	16	16	13	26	31	32	32	23	30	24	16	15	15	16	21	21	21	24	32	9	19
18	22	22	14	9	8	19	13	17	15	14	21	17	17	21	20	21	22	23	23	23	25	21	21	18	24	25	8	18
19	17	17	17	17	17	16	25	25	20	17	17	NA	NA	NA	cal	13	16	15	33	35	19	16	13	13	20	35	13	18
20	14	14	30	27	25	20	19	19	24	34	42	57	46	39	40	42	42	41	27	22	20	16	12	13	24	57	12	28
21	9	9	9	9	15	15	13	10	10	18	20	20	14	14	14	14	11	11	17	22	27	20	19	19	24	27	8	15
22	6	10	13	10	12	10	16	20	19	19	21	18	18	22	26	18	19	24	25	25	21	17	16	13	24	26	6	18
23	16	16	16	16	17	17	19	19	23	19	16	14	12	13	15	15	20	12	10	10	10	10	11	10	24	23	10	15
24	10	10	11	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	13	10	10
25			.. not	available ..																								
26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	cal	23	23	23	20	16	13	7	7	4	4	10	23	4	14
27	13	9	9	9	9	10	10	19	13	20	19	21	10	29	28	31	27	22	25	19	18	18	22	20	24	31	9	18
28	20	4	5	6	5	3	6	6	6	4	9	13	9	11	11	9	6	5	5	4	4	4	3	12	24	20	3	7
29	14	4	4	4	7	7	5	12	cal	24	23	21	17	16	14	14	18	16	15	9	8	7	9	13	23	24	4	12
30	6	4	3	0	0	10	8	12	11	12	7	19	18	9	NA	NA	50	35	21	17	15	15	14	13	22	50	0	13
31	4	4	1	1	0	1	3	9	40	56	46	40	70	70	57	49	43	31	21	17	15	14	10	6	24	70	0	25
	19	16	15	14	14	15	15	17	24	29	34	38	42	45	48	46	46	45	37	30	24	21	20	18				

TABLE B1-4

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*******************************************************************************************************************
 11:07  12-MAR-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************************

                                    FOR THE MONTH OF  FEBRUARY   1980
STATION 11      B.C.  HYDRO - SMYTHE  AND  MURRAY - VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                       H O U R                                                              DAY   DAY  #ZERO  DAY
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX   MIN  AVG'S  AVG

   1     30  25  24  20  18  16  25  20  30  30  29  34  29  33  23  26  27  25  24  27  29  25  28  25     34    18    0    26
   2     27  27  30  29  22  23  27  31  30  30  31  28  26  28  23  21  24  22  26  27  28  30  24  24     31    21    0    27
   3     24  22  29  21  22  20  18  22  26  28  30  30  31  34  32  32  31  33  31  29  30  28  26  25     34    18    0    27
   4     25  26  27  23  19  20  21  19  22  29  27  31  36  37  40  33  34  29  27  24  22  23  27  26     40    19    0    26
   5     26  22  22  25  25  25  23  23  22  26  31  32  34 ***  47  52  47  39  38  32  32  31  32  29     57    22    0    31
   6     30  30  31  28  21  21  22  25  27  32  30  27  30  28  33  35  28  32  28  24  23  21  20  18     35    18    0    27
   7     18  20  19  18  20  20  17  22  23  27  35  33  30  31  33  31  32  29  30  26  27  23  21  24     35    17    0    25
   8     21  21  21  21  17  19  17  18  24  27  23  23  24  18  21  20  25  20  21  23  22  28  33  35     35    17    0    23
   9     38  55  52  44  44  31  35  35  34  36  43  45  37  35  36  38  39  41  44  41  40  37  37  32     55    31    0    39
  10     30  25  24  22  21  20  20  17  17  17  17  18  18  17  19  19  22  21  19  20  21  20  20  21     30    16    0    20
  11    *** *** *** *** *** *** *** ***  21  23  29  29 *** ***  27  26  25  27  26  24  20  26  33  30     30    21    0   ***
  12     33  32  20  28  29  29  29  30 ***  30  28  29  40  54  50  42  35  40  34  20  29  23  21  21     54    21    0    32
  13     20  19  13  15  14  18  19  32  40  69  61  43  33  29  29  30  31  30  34  33  28  26  23  24     69    13    0    31
  14     20  18  19  18  15  18  23  35  38  31  31  32  29  31  34  34  38  34  28  31  33  34  36  31     38    15    0    29
  15     20  30  25  28  26  25  33  39  37  35  40  41  41  42  45  39  45  41  40  41  40  39  38  37     45    25    0    36
  16     30  35  34  31  29  30  32  33  34  35  35  35  36  32  33  31  29  35  30  27  26  27  25  24     36    24    0    31
  17     25  24  25  21  23  28  29  28  27  32 ***  41  38  45  34  29  30  33  26  28  26  24  26  24     45    21    0    29
  18     24  21  22  25  16  14  19  30  38  35  36  32  37  35  35  33  33  31  32  25  29  28  24  25     37    14    0    28
  19     23  25  24  22  23  22  27  25 *** ***  26  29  31  37  35  39  37  38  33  22  25  21  22  22     39    22    0    27
  20     21  21  18  16  18  13  32  22  22  28  28  28  30  32  32  30  30  32  30  33  30  32  30  29     33    12    0    25
  21     29  27  27  26  24  21  21  21  32  48  49 *** ***  29  33  35  35  37  36  34  27  23  23  20     48    20    0    29
  22     21  22  15  22  22  22  25  24  35  41 ***  65  26  19  25  28  29  30  34  31  29  30  24  20     65    19    0    29
  23     27  25  22  23  28  32  20  29  30  37  50  51  48  40  55  45  50  47  45  37  35  34  31  17     55    27    0    37
  24     31  31  32  32  30  29  26  26  32  26  22  26  31  31  29  28  26  28  25  25  24  24  25  25     32    22    0    28
  25     25  25  26  25  25  25  22  23  23  27  29  30  30  29  29  27  24  27  27  29  29  29  27  28     30    22    0    26
  26     26  27  16  15  12  14  22  25 ***  27  26  24 ***  24  26  28  26  26  26  22  24  22  24  23     28    12    0    23
  27     24  20  22  20  18  20  19  17  19  21  22  27  23  30  28  27  30  29  27  27  26  24  25  24     30    17    0    24
  28     21  18  26  23  22  17  28  28  33  32  34  33  30  28  31  31  33  29  31  31  31  24  23  21     34    17    0    27
  29     20  20  24  22  22  17  28  28  31  26  26  30  31  33  34  28  28  28  28  28  30  29  27  26     34    17    0    27
MONTHLY
VALUES   26  26  25  24  22  22  24  26  29  32  32  33  32  32  33  32  32  32  30  29  28  27  27  26     33    22    0
```

TABLE B1-4

```
************************************************************************************************************
 11:09  12-MAR-80            AQRS MONTHLY  -  ONE HOUR AVERAGES  -  SUMMARY REPORT
************************************************************************************************************
                                       FOR THE MONTH OF  FEBRUARY   1980
STATION T2      2294  WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                    H  O  U  R                                                   DAY  DAY  %ZERO DAY
 DATE      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN  AVE'S AVE

    1     30  25  22  18  18  19  25  32 *** *** ***  32  30  32  29  27  30  24  28  29  29  30  28  30      32   18    0    27
    2     30  27  28  25  23  16  18  25  28  30  29  27  28  23  18  19  27  29  28  25  27  32  24  21      32   16    0    25
    3     24  15  12  10  10   9  12  17  27  26  23  23  16  31  29  28  21  31  28  29  20  26  25  23      31    9    0    22
    4     29  25  28  28  25  23  24  20  22  30  34  35  41  37  28  26  32  33  22  26  23  22  19  22      41   19    0    26
    5     22  22  20  20  22  22  21  23  22  30  30  32  36 ***  37  41  32  33  31  32  31  30  30  27      41   20    0    28
    6     28  27  20  25  22  18  19  22  22  25  29  27  29  27  30  28  25  28  22  20  21  19  16  18      30   16    0    24
    7     16  16  16  15  14  13  13  13  13  14  24  23  25  29  26  18  22  23  21  20  24  22  19  17      29   13    0    19
    8     15  16  16  12  12  13  11  11  13  15  22  21 *** *** *** ***  21  25  21  23  22  16  12   8      25    8    0    16
    9    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0   ***
   10     30  25  19  16  28  24  22  22  22  19  19  19  19  19  19  18  19  22  21  21  19  19  25  21      30   16    0    21
   11    *** *** *** *** *** *** *** ***  22  18 ***  21  22 ***  18  15  15  16  15  17  18  14  24  27      27   15    0   ***
   12     30  30  28  27  25  24  24  21 ***  26 ***  26  33  44  40  35  35  31  31  23  18  18  16  15      44   15    0    27
   13     14  13   6   6   9  10  11   6  15  20  27  18  15  15  12  25  24  27  35  31  22  17  16  16      35    6    0    17
   14     13   9   8   9   8  12  15  30  34  29  21  23  18  19  20  28  33  35  31  28  25  24  25  23      35    8    0    22
   15     20  23  18  12  20  16  22  25  30  34  35  35  46  40  41  41  38  42  40  41  41  38  34  39      46   12    0    32
   16     32  31  30  22  23  21  28  31  29  35  34  36  30  22  22  25  26  29  25  21  18  15  18  15      36   15    0    25
   17     16  16  11  10  10  11  16  19  22  25 ***  35  15  40  33  27  33  30  31  23  26  25  25  27      40   10    0    26
   18     27  21  16  14  12  15  21  29 ***  36  37  33  33  37  32  33  33  34  30  27  24  26  19   9      37    9    0    26
   19      7   7   7   5   7  12  17  22 *** ***  19  20  15 *** *** *** *** *** *** *** *** *** *** ***      22    5    0   ***
   20    *** *** *** *** *** *** *** *** *** *** *** *** *** ***  34  35  34  29  26  29  28  28  27  27      35   26    0   ***
   21     26  24  20  25  24  22  19  17  20  43  54  25  11  16  15  17  24  25  32  26  33  19  22  24      54   11    0    26
   22     19  26  19  16  22  19  15  20  25  36  43  42  14  12  12  19  18  32  32  25  26  21  20  18      43   12    0    21
   23     14  15  21  22  18  17  18  19  25  34  42  53  40  28  36  40  40  40  44  34  32  26  20  10      53   14    0    30
   24     31  32  28  29  23  15  18  14  26  23  20  16  22  26  25  23  28  26  25  25  24  25  24  21      32   14    0    24
   25     21  23  22  22  22  20  23  23  22  27  28  33  32  33  35  29  26  24  26  26  30  31  29  27      35   20    0    26
   26     21  18  17  13  16   9  18  24 ***  26  28  26  23  21  21  26  24  26  24  29  29  27  25  24      28    9    0    22
   27     24  24  23  20  18  20  21  22  20  19  22 *** *** ***  27  27  27  21  22  27  25  25  26  22      27   18    0    23
   28     15  12  14  17  24  16  17  26 ***  35  36  36  28  25  26  20  26  30  34  35  37  32  14  10      37   12    0    26
   29     11  29  22  14  16  16  17  20  24 *** *** *** *** *** *** ***  40  33  35  37  34  35  34  11      40   11    0   ***
MONTHLY
VALUES    22  21  19  16  18  17  19  22  23  27  30  29  27  27  27  27  28  29  28  27  26  25  23  24      40   17    0
```

TABLE B1-4

```
**********************************************************************************************************************
 11:10  12-MAR-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
**********************************************************************************************************************
                                         FOR THE MONTH OF  FEBRUARY   1980
STATION 11     MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                  H O U R                                                    DAY  DAY  #ZERO DAY
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN  AVE'S AVG

   1    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   2    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   3    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   4    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   5    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   6    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   7    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
   8    *** *** *** *** *** *** *** *** *** *** *** *** *** ***  28  34  35  30  27  27  27  16  16  21    35   16    0   ***
   9     20  22  30  30  34  32  30  28  29  30  31  32  27  30  31  36  34  34  35  38  40  42  39  36    42   20    0    32
  10     33  30  24  23  18  22  27  26  18  16  21  19  17  20  18  22  22  24  22  22  21  24  24  25    33   17    0    22
  11    *** *** *** *** *** *** *** ***  30  16  19  18  16      18  18  18  21  22  22  25  28  30  34    34   16    0   ***
  12     38  33  34  29  29  28  27  25 ***  26  32  31  31  28  30  32  35  39  34  31  27  19  22  20    39   19    0    26
  13     16  17  17  15  15  11  12  12  21  41  20  18  15  15  17  20  23  28  28  25  14  15  12   9    41    9    0    19
  14     10   7   6   7   5   7  19  33  31  20  16  15  16  16  17  24  21  29  13  32  31  33  34  14    34    5    0    21
  15     31  28  26  21  28  32  43  32  28  29  33  35  34  37  37  36  38  38  39  39  37  30  30  30    43   21    0    31
  16     29  32  31  30  32  30  29  27  29  31  36  36  32  26  21  24  22  28  28  28  26  28  25  27    36   21    0    28
  17     19  13  14  17  16  16  14  14  19  29 ***  34  35  36  30  29  29  25  26  23  26  25  26  26    36   13    0    28
  18     27  21  26  20  17  21  27  32  33  33  30  30  30 *** *** *** *** *** *** *** *** *** *** ***    33   17    0   ***
  19    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  20    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  21    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  22    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  23    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  24    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  25    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  26    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  27    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  28    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
  29    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0   ***
MONTHLY *** *** *** *** *** *** *** *** *** *** ***  27  27  22  22  28  33  34  31  30  31  32  37  11    34   22    0   ***
VALUES   25  23  23  21  22  23  26  26  25  27  26  27  25  26  24  28  28  30  30  29  26  27  27  27    30   21    0
```

TABLE B1-4

```
*****************************************************************************************************
 11:10  12-MAR-80              AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT
*****************************************************************************************************
                                        FOR THE MONTH OF  FEBRUARY   1980
STATION T4     KENSINGTON  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                  H O U R
 DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY #ZERO  DAY
                                                                                                        MAX  MIN AVE'S  AVE
   1   12   5   5   8   3   4  13  21  28  25  22  26  24  26  24  24  22  18  18  16  15  14  11  13    28    3    0    17
   2   13  14  18  22  15  12  17  18  21  18  12  18  13  19  25  21  22  26  19  31  33  34  30  30    34   12    0    21
   3   28  19  10  17  15  13  16  17  23  19  25  20  22  27  25  28  30  30  41  33  33  31  21  31    36   10    0    24
   4   30  20  21  18  17  20  23  23  24  25  24  28  25  22  27  26  28  25  24  23  25  28  28  28    30   17    0    24
   5   30  25  24  24  24  24  23  25 ***  24  25  34  44  41  39  40  30  23  12  21  24  10  19  15    44   10    0    25
   6    9  11   7   8  13   9  16  22  24  24  25  20  19  24  28  29  37  30  29  19  10  22  17  16    32    7    0    20
   7   17  10  11  11  13  14  16  16  15  18  25  34  37  39  40  35  31  30  30  30  26  29  29  25    40   11    0    25
   8   25  10  13  14  21  17  14  14  10  19  25  32  35  30  25  26  32  36  31  29  31  27  26  25    36   13    0    24
   9   27  23  24  24  29  27  23  20  23  24  24  36  51  47  38  41  45  48  56  53  29  26  29  15    56   20    0    35
  10   33  30  27  20  25  25  24  24  24  23  25  25  27  26  23  25  26  29  28  26  49  26  23  25    33   23    0    26
  11  *** *** *** *** *** *** *** ***  18  20  25  26  12 ***  43  45  47  43  42  38  26  27  25  21    47   18    0   ***
  12   32  31  25  29  25  23  19  18 ***  21  10  17  10  19  52  44  33  32  30  24  39  22  23  28    52   18    0    29
  13   22  20  20  19  17  17  17  17  23  36  10  17 [illegible] [illegible] [illegible]  26  25  25  20  14  23   6   7   6    40    6    0    20
  14    5   0   0   0 [illegible] [illegible]   9  18  20  17  12  12  14  14  15 ***  24  27  18  10   9  13  12  11    27    0    3    12
  15    9   9   6   9  10   9  16  27  23  18  18  19  19  19  20  21  26  27  12  13  14  36  35  35    36    8    0    21
  16   35  32  32  33  27  10  31  29  30  31  39  17  35  35  35  19  37  17  15  37  35  34  30  29    39   29    0    33
  17   26  22  22  21  20  20  20  21  19  24 ***  24  27  30  27  25  26  23  22  22  36  17  13  12    30   12    0    22
  18   17   9  20  16  10   7  13  26  28  21  18 [illegible]  22 [illegible]  20  24  27  26  24  28  20  29  15  12    28    7    0    19
  19   11   9  11   9   9   8   8  17 ***  ***  21  22  22  28  29  28  34  28  21  21  25  16  15  12    34    8    0    18
  20   19  19  19  17  18  18  18  23  25  27  26  22  28  30  32  31  30  29  24  23  16  23  20  17    32   17    0    23
  21   18  23  20  16  11  17  19  22  22  21  14  24  33  35  27  34  37  35  34  31  24  17  14  20    37   11    0    23
  22   23  24  23  18  15  10  19  24  26  36  44  41  50  31  24 ***  31  32  33  33  25 [illegible]   9  21    50   10    0    27
  23   24  27  20  20  11  15  18  19  23  27  36  31  36  20  21  39  37  41  28  24  30  30  30  29    41   11    0    27
  24   26  20  25  22  21  18  17  15  14  14   8   7  11  15  13  14  16  17  14  12  13  14  18  24    26    7    0    16
  25   23  24  16  18  23  23  23  24  24  18  19  20  14  19  25  25  24  26  20  25  16   9  15  23    26    9    0    20
  26   23   6   5   8   9   7  15  24 ***  15  17  17  25  24  26  30  33  32  23  18  13  16   9   9    33    5    0    17
  27    9   9   6   8   9  10  13  17 ***  ***  19  19  23  28  24  24  26  25  23  19  17  14  18  22    26    8    0    17
  28   17  21  20  18  12   9  15  16  21  20  17  25  30  22  19  20  25  33  29  33  27  26  26  25    33    9    0    22
  29  *** *** *** *** ***   9  15  18  14  27  23  23  20  19 *** ***  22  22  21 *** *** *** *** ***    27    9    0   ***
MONTHLY
VALUES 21  18  17  17  16  15  17  21  22  23  23  25  27  27  27  29  30  30  27  26  25  23  22  21    30   16    3
```

TABLE B1-4

```
********************************************************************************************
11110  12-MAR-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
********************************************************************************************
                                FOR THE MONTH OF  FEBRUARY   1980
STATION T5      CONFEDERATION  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
```

											HOUR																	
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#ZERO AVE'S	DAY AVE
1	9	8	8	6	8	8	8	9	17	20	23	25	24	25	23	28	27	15	11	19	10	9	8	8	28	6	0	14
2	8	10	11	14	12	15	11	16	25	18	21	30	32	33	28	21	26	34	36	37	41	43	42	35	43	8	0	23
3	35	30	27	29	23	23	19	25	29	28	32	25	35	30	24	34	42	45	43	41	41	40	38	35	45	19	0	32
4	35	30	28	24	20	16	18	29	28	9	10	15	18	21	16	8	42	23	23	36	28	31	29	33	42	8	0	22
5	34	29	29	31	32	33	27	14	29	12	17	***	53	65	62	48	14	10	7	5	5	3	7	8	65	3	0	25
6	4	9	30	11	15	14	13	12	15	11	12	10	10	11	22	38	43	40	40	37	39	29	25	19	43	4	0	21
7	20	26	15	9	9	10	16	19	22	27	36	40	55	54	51	38	42	40	39	42	42	40	34	30	55	9	0	31
8	26	23	18	19	24	30	24	22	26	33	41	45	44	34	30	35	32	41	44	42	39	42	41	36	45	18	0	33
9	30	34	29	30	32	40	37	32	30	32	54	88	70	63	46	44	55	58	56	61	61	64	57	44	88	29	0	46
10	42	40	34	34	31	32	30	30	32	31	28	30	31	31	29	27	31	34	38	31	35	35	35	31	42	27	0	32
11	***	***	***	***	***	***	***	***	30	31	35	41	57	***	69	62	56	51	58	50	41	36	28	21	69	21	0	***
12	28	34	27	27	30	30	35	37	***	44	[illegible]	[illegible]	67	[illegible]	[illegible]	***	79	57	50	44	41	39	37	37	79	27	0	44
13	33	31	30	26	24	28	28	32	42	62	[illegible]	55	16	[illegible]	10	36	23	12	9	10	15	8	5	4	83	4	0	27
14	5	3	3	5	2	3	4	4	8	5	6	8	4	5	6	8	7	9	8	4	2	2	3	4	9	2	0	5
15	1	3	0	1	[illegible]	1	4	10	14	9	10	8	***	3	7	8	13	10	46	49	54	52	50	50	54	0	1	19
16	49	40	46	48	36	41	43	41	41	43	45	34	46	42	41	51	48	50	46	50	47	52	42	40	52	34	0	45
17	37	35	42	36	39	40	44	16	45	49	***	49	43	36	26	17	19	39	28	11	11	10	8	8	49	8	0	31
18	11	8	15	16	9	4	5	16	16	20	24	22	25	25	30	31	40	41	36	30	33	30	25	23	41	4	0	22
19	19	14	12	13	13	13	18	25	***	***	22	22	17	17	20	16	28	29	17	18	21	18	19	20	29	12	0	15
20	19	22	21	20	23	21	20	27	32	31	25	28	22	19	24	23	29	35	31	29	21	18	16	17	35	16	0	23
21	17	18	14	8	4	10	20	20	17	15	15	***	37	23	18	27	36	44	44	35	30	24	19	21	44	4	0	22
22	27	28	26	20	19	22	27	34	28	46	64	45	51	14	22	23	30	38	40	34	31	30	29	31	64	14	0	31
23	20	38	27	28	26	26	21	26	28	58	25	19	44	28	50	59	79	41	14	9	18	43	41	39	79	9	0	34
24	30	38	38	35	34	18	26	20	13	7	7	5	5	7	7	8	7	7	5	5	8	16	11	18	38	5	0	16
25	18	17	14	17	30	32	34	30	12	6	18	7	4	10	9	15	24	26	18	16	7	7	7	14	34	4	0	16
26	23	13	9	8	10	11	13	15	***	20	21	26	33	31	35	40	44	29	16	18	9	5	5	8	44	5	0	19
27	13	7	4	4	5	6	6	7	10	13	11	18	25	24	30	21	26	31	25	16	8	5	1	10	31	1	0	14
28	***	20	25	18	10	3	5	1	0	***	26	31	33	22	22	24	35	42	42	40	24	7	30	***	42	0	1	22
29	***	***	***	***	***	3	5	1	13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	13	1	0	***
MONTHLY VALUES	23	23	21	20	20	19	20	21	23	26	29	30	33	27	29	29	35	34	31	29	27	26	25	24	35	19	2	

TABLE B1-4

11:11 12-MAR-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF FEBRUARY 1980

STATION T6 75 RIVERSIDE DRIVE - NORTH VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

DATE	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#ZERO AVE'S	DAY AVE
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
9	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
14	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
16	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
17	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
18	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
19	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
20	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
21	***	***	***	***	***	***	***	***	***	***	***	***	***	***	42	50	58	59	53	25	18	25	18	23	59	18	0	***
22	21	18	14	15	14	15	14	25	40	47	72	72	67	35	35	43	39	50	47	37	41	37	28	28	72	14	0	35
23	22	21	16	17	12	13	12	18	23	53	62	36	48	89	92	96	88	80	31	29	20	20	40	36	96	12	0	41
24	29	23	19	20	18	19	17	15	21	18	11	11	13	14	17	12	14	14	14	11	14	12	11	19	29	11	0	16
25	16	30	23	28	40	48	42	40	32	21	24	17	21	28	30	18	16	16	21	12	12	9	6	9	48	6	0	23
26	8	6	6	11	6	7	10	17	***	32	39	36	39	55	55	61	59	39	23	28	10	9	5	22	61	5	0	25
27	30	9	6	7	10	8	9	14	20	26	26	27	26	27	36	32	23	26	26	12	12	16	11	11	36	6	0	19
28	13	33	31	23	11	8	5	24	20	***	18	26	35	34	33	27	32	36	32	27	23	23	22	21	36	5	0	24
29	14	16	11	13	12	8	5	24	20	17	16	27	23	17	19	22	14	13	9	6	3	5	7	5	27	3	0	13
MONTHLY VALUES	19	19	16	17	15	16	14	22	25	31	34	32	34	37	40	40	38	37	28	21	17	17	16	19	40	14	0	

TABLE B1-4

11:11 12-MAR-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF FEBRUARY 1980

STATION T7 ANMORE ELEMENTARY SCHOOL - ANMORE

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

	HOUR																											
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#ZERO AVE'S	DAY AVE
1	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
3	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
4	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
5	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
6	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
7	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
8	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
9	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
10	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
12	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
13	***	***	***	***	***	***	***	***	***	***	***	***	***	***	19	22	21	20	20	18	17	15	15	14	22	14	0	***
14	14	14	14	14	13	14	13	14	14	13	14	13	15	14	17	17	16	16	15	15	13	12	12	12	17	12	0	14
15	12	12	13	13	12	12	12	13	16	12	***	17	26	19	16	23	30	29	27	35	39	46	42	47	47	12	0	23
16	51	60	61	57	51	45	43	39	35	34	37	35	47	50	56	72	64	38	30	34	31	27	27	25	72	25	0	44
17	23	25	23	25	25	22	22	25	20	28	***	29	32	33	29	26	21	20	24	21	17	15	15	16	33	15	0	23
18	15	13	14	18	17	14	14	13	14	11	6	5	***	***	***	***	***	***	***	***	***	***	***	***	18	5	0	***
19	***	***	***	***	12	14	12	13	***	***	17	18	16	17	17	18	14	15	19	15	14	12	14	13	19	12	0	15
20	10	12	13	11	12	19	30	31	33	19	14	14	16	17	18	18	17	17	19	13	15	13	8	12	33	8	0	16
21	12	12	11	10	9	11	15	18	16	***	***	13	14	24	44	55	***	***	44	32	25	21	19	15	55	9	0	21
22	12	10	10	10	11	10	12	13	11	25	50	65	59	78	54	51	58	53	42	35	29	22	19	14	78	10	0	31
23	7	5	2	3	1	1	3	6	6	17	30	46	37	21	29	31	39	39	35	21	15	14	14	7	46	1	0	18
24	9	8	7	4	5	3	6	14	7	6	4	6	10	10	11	15	13	16	13	13	9	8	9	7	16	3	0	9
25	8	13	7	10	13	17	15	11	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	17	7	0	***
26	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
27	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
28	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
29	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	***
MONTHLY VALUES	16	17	16	16	15	15	17	18	17	18	22	24	27	28	28	32	29	27	27	23	20	19	18	17	32	15	0	

TABLE B1-4

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++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
 11:12  12-MAR-80            AQRS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++

                                      FOR THE MONTH OF  FEBRUARY    1980

STATION  T8      LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
+++ - INDICATES DATA UNAVAILABLE
                                               H O U R                                                   DAY   DAY  #ZERO   DAY
 UNIT     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN  AVE'S   AVE

    1    17  14  16  10   5  10  14  24  22  25  24  26  24  23  24  24  22  22  22  22  28  27  23  20    28     9    0     20
    2    20  27  23  20  29  25  30  25  33  24  15  24  21  26  25  19  26  27  21  21  21  22  21  23    33    15    0     24
    3    23  23  24  25  21  20  20  24  22  17  21  26  23  27  26  31  30  30  30  25  24  22  28  21    31    17    0     24
    4    18  14  12  10  20  19  20  19  21  25  24  30  31  24  18  19  23  23  21  17  13  20  18  20    31    16    0     20
    5    21  18  19  18  19  20  23  23  24  26  30  32  35  41  38  39  31  23  18  19  23  23  23  20    41    18    0     25
    6    20  19  24  19  11  12  16  19  21  22  21  20  17  21  26  25  23  22  22  20  15  17  13  12    26    11    0     19
    7    18  15  17  18  13  13  11   9   7  11  18  16  20  30  30  18  22  22  24  23  22  20  26  19    30     7    0     18
    8    19  19  16  15  11  10  12  10  13  19  21  20  17  14  13  21  22  20  20   4   3   3   3   3    22     3    0     13
    9     9  10  16  15  19  18  19  19  16  15  23  23  25  27  28  31  35  35  37  37  23  22  25  31    37     9    0     23
   10    26  24  24  26  21  17  19  18  21  18  20  20  19  20  20  15  19  29  29  27  28  23  23  23    29    15    0     21
   11   +++ +++ +++ +++ +++ +++ +++ +++  18  22  24  26  20 +++  25  28  32  34  32  30  33  30  30  19    34    18    0    +++
   12    22  27  27  25  24  27  26  25 +++  26  22  28  37  47 +++  30  33  33  27  30  24  21  19  18    47    18    0     27
   13    18  20  18  15  14  17  17  17  29  46  38  32  35  12   8   9   9  23  29  18  18  14  13  13    46     8    0     19
   14    11  10   7   6  10   7  11  23  32  15   8   8 +++  11  11  14  15  23  25  20  18  18  19  15    32     6    0     14
   15    17  15  11  18  19  23  31  33  35  40  29  20  24  24  29  29  34  42  41  43  43  39  37  37    43    11    0     30
   16    38  35  35  34  34  36  32  28  24  30  33  30  23  32  41  41  39  39  39  28  27  23  24  19    41    19    0     31
   17    16  12  13  13  14  18  17  20  27  27 +++  43  44  45  41  36  47  38  30  34  28  26  25  22    47    12    0     28
   18    22  21  20  24  20   9  13  23  20  28  27  27  21  24  30  29  33  33  31  32  29  28  27  21    33     9    0     25
   19    18  20  19  16  19  19  20  22 +++ +++  27  22  23  23  24  23  28  30  22  17  18  19  17  17    30    16    0     21
   20    18  13  10  10   9  10  10   8  15  22  28  27  28  28  30  32  31  33  30  29  28  27  24  24    33     8    0     21
   21    23  16  15  14  12  11  15  18  23  30  30  30  12  11  11  14  18  21  24  18  11  17  18  12    36    11    0     17
   22    15  16  15  14  17  19  17  12  20  25  35  71 +++   9  12  10  14  23  27  18  19  19  17  17    71     9    0     20
   23    11  15  14  18  17  15  15  15  24  28  33  44  40  27  23  25  24  36  35  30  25  21  23  22    44    14    0     24
   24    23  19  21  20  23  27  30  30  22  16  12  14  15  18  17  19  17  21  25  27  24  25  28  24    30    12    0     21
   25    20  23  23  21  25  25  21  21  24  26  26  29  19  30  26  26  30  28  28  29  25  24  27  28    30    19    0     25
   26    28  18  14  16  13  11  15  20 +++  22  26  25  28  25  23  26  24  26  22  24  24  27  28  25    28    10    0     21
   27    25  26  25  23  22  24  24  21  21  24  29  29  30  28  29  26  28  27  28  25  28  19  19  22    30    14    0     24
   28    22  17  18  17   7   3  12  32  26  17  24 +++  36  36  33  37  32  34  35  36  28  25  28  24    36     3    0     25
   29    19  20  16  15  20   3  12  32  23  28  22  26  26  20  14  22  30  31  29  27  32  37  30  27    32     3    0     21
MONTHLY
VALUES   20  19  16  17  18  17  19  21  23  24  25  28  25  25  24  25  27  29  28  25  23  22  22  21    29    17    0
```

TABLE B1-4

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************************************************************************************************************************
 11:13  12-MAR-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
************************************************************************************************************************
                                        FOR THE MONTH OF  FEBRUARY   1980
STATION T9      ROCKY  POINT  PARK - PORT  MOODY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                  H O U R                                                     DAY   DAY  #ZERO   DAY
   DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN  AVE'S   AVE
      1 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      2 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      3 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      4 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      5 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      6 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      7 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      8 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
      9 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     10 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     11 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     12 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     13 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  15   9  10   9 ***  10   9   8    15     8      0   ***
     14 *** *** *** *** *** ***   7  10   7   8 *** *** ***   8  12   9 ***   9 ***   8   8   7  10  39    39     7      0   ***
     15  37  40  36  36  36  38  39  44  44  48  43  22  20  20  23  28  35  42  45  45  45  49  46  47    49    20      0    38
     16  54  55  54  61  51  49  45  46  47  52  53  55  56  56  58  67  72  64  52  50  50  46  42  38    72    38      0    52
     17  38  45  42  40  37  32  33  40  38  35 ***  45  45  42  41  43  43  41  41  41  39  37  37  34    45    32      0    39
     18  37  36 ***  24  27 ***  39  41  46  51  53  53  48  52  55  55  54  55  50  47  45  43  35  32    55    24      0    44
     19  29  21  22  27  25  23  27  34 *** ***  29  24  22  20 ***  28  37  38  31  30  27  29  26  29    38    20      0    28
     20  30  25  30  22 ***  29  30  34  40 ***  19 ***  20  21  21  30  33  36  30  37  43  38  39  39    43    19      0    30
     21  36  35  26  20  23  25  29  31  29  34  44  41  41  32  44  40  47  53  47  38  35  32  27  29    53    20      0    34
     22  25  20  21  26  27  33  29  29  33  45  60  85  74 *** *** *** *** *** *** *** *** *** *** ***    85    20      0   ***
     23 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     24 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     25 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     26 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     27 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     28 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
     29 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***      0   ***
MONTHLY
VALUES   36  35  33  31  32  33  31  34  35  39  43  46  41  31  36  37  42  39  38  34  36  32  30  33    46    30      0
```

TABLE B1-4

```
*****************************************************************************************************************************
  11:14  12-MAR-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************************
                                            FOR THE MONTH OF  FEBRUARY   1980
STATION T10    3288  HASTINGS  STREET - PORT  COQUITLAM
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                               H  O  U  R                                                            DAY   DAY  #ZERO  DAY
  DATE     1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24     MAX   MIN  AVE'S  AVE

    1      0    0    1    0    0    0    4   13   26   21   28   28   25   25   20   24   22   12   10   10   11    2    5    2      28     0    5     12
    2      0    1   24   10   11   19   15   22   23   24   26   28   28   23   22   24   24   25   22   21   16   13   13   14      28     0    1     19
    3     14   11    7   10   12   13   13   14   14   19   22   14    8   14   22   20   27   31   28   27   20   11   17   13      31     7    0     17
    4     11   14   17   12    6    1    4    8   16   17   24   13    6    1    0    3    4    7    7    3   13   14   10    8      24     0    1      9
    5      8    3    6   10    7    4    2   13  ***   16   37   26   18   23   29   36   26    3    2    5    0    3   21   15      37     0    1     13
    6     14   23   16   20   19   15   15   13   19   19    9    8    9    6   12   25   26   28   23   20   11   14   16    5      28     5    0     16
    7      9   11    0    4    2    5    5    9    8    9    9   18   17   20   23   29   33   33   33   31   21   12   10    7      33     0    1     15
    8     10    9    9    4    2   15   16   11   11   11   16   21   29   41   51   53   49   37   28   25   20   31   44   23      53     2    0     24
    9     19   14   23   25   20   22   20   19   21   20   22   31   40   49   56   58   60   57   51   44   42   30   36   36      60    14    0     33
   10     27   24   13   13   14   10   12   13   12   23   22   26   31   33   32   33   31   28   26   26   24   21   16   16      33    10    0     21
   11    ***  ***  ***  ***  ***  ***  ***  ***   16   15   24   29   35  ***   41   48   52   50   38   33   34   27   22   25      52    15    0    ***
   12     19   23   24   24   28   27   27   25  ***   32   33   35   41   45   53   42   38   36   38   32   28   31   26   18      53    18    0     31
   13     22   19   21   14   14   14   16   16   21   28   33    9    1    0    6    8    3    4    3    0    0    1    3    1      33     0    3     11
   14      0    0    0    0    0    0    0    0    0    0    1    1    3    3    0    2    1    0    0    0    0    0    0    0       3     0   19      0
   15      4    6   12    8   12   13    9   16  ***   33   35   19   11   17   23   22   22   24   22   20   22   22   24   19      35     4    0     18
   16     16   22   27   27   26   24   20   21   23   24   23   20   24   26   26   37   44   39   29   23   26   22   15   10      44    10    0     24
   17     11   11   10    6   10   12   14   12   11   17  ***   14   15   14   15   15   11   14   13   18   10    7    3   22      22     3    0     12
   18      2    0    0    9    0    0    9   27   11   14   28   17   10   24   27   27   24   19   24   21   19   15   19   14      28     0    4     15
   19     16    9    6    1    1    0    0   11  ***  ***    5    5    2    2    2    6   17   27   10   12    9    7    4    3      27     0    2      7
   20     10    6    0    5    8   10   11   14   19    8    0   11    7    1    0    4    3   10    7   10   15   15   19   17      19     0    3      8
   21      5    3    1    0    0    0    5   12  ***   20   27   27   27   38   44   48   47   43   36   17    8   11    9    8      48     0    3     18
   22      9    2    3    2    1    1    2    3   11   22   31   23   33   41   45   46   46   41   32   22   17   15   10    8      46     1    0     19
   23      7    3    3    4    1    4    1    6   14   19   23    8   14   22   18   29   32   19    8   17   27   23   25   20      32     1    0     14
   24     12   10   14   16   12   10   20   19    8    1    0    0    1    2    3    2    6   13    4    4   10   22   11   12      22     0    2      9
   25     13   14   10   14   16   10    7    8    8   11   13    9    1    4    6   18   18   19   18   13    1    6    4   19      19     1    0     10
   26     20   13    8    4   10    7   18   19  ***   23   22   26   26   22   21   24   24   23   18   17   17   16    6    7      26     4    0     17
   27      5    9    4    3   14   10    7   12  ***   21   21   19   16   20   20   17   15   14   12   15    2    5   19   11      21     2    0     13
   28     18   18   13   18   11    0   12    9    6    9   15   15   27   28   27   26   28   30   23   29   12   23   12   15      30     0    1     17
   29     15   6.    4    1    2    0   12    9    8    7    1    3    5    6    5    8    4    9    3    2    0    2    1    7      15     0    2      5
MONTHLY
VALUES    11   10   10    9    9    9   11   13   14   17   20   17   18   20   22   25   25   24   20   18   15   15   14   13      25     9   48
```

TABLE B1-5

```
**********************************************************************************************************
 1115P  11-APR-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
**********************************************************************************************************
                                   FOR THE MONTH OF    MARCH    1980
STATION T1 ---- ROBSON SQUARE - ROBSON AND HORNBY = VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                       H O U R                                           DAY   DAY  8-HR
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN  AVG'S

   1    30  30  29  24  25  25  25  21  20  25  22  35  40  30  23  25  26  30  29  28  30  29  29  29    40    22    0
   2    20  20  15  16  16  16  16  16  21  23  24  24  27  27  24  24  21  22  23  21  21  21  20  19    27    16    0
   3    13  11  15  15  15  16  17  16  13  10  17  14  15  18  21  22  20  20  20  24  24  25  22  22    29    13    0
   4    15  17  21  16  16  15  27  29  32  28  24  25  27  25 *** ***  29  24  25  26  27  28  25  26    32    15    0
   5    20  22  21  20  20  20  20  21 ***  31  19  31  35  25  27  25  29  28  28  27  28  27  27  27    39    21    0
   6    25  25  26  23  24  26  25  27  33  52  57  63  58  55  43  43  41  42  40  30  37  31  30  29    63    23    0
   7    27  26  25  25  26  25  25  29  29  43  56  36  30  31  33  35  36  40  41  41  29  34  30  32    56    20    0
   8    20  25  21  27  26  24  28  32  47  47  26  24  19  19  21  23  25  29  30  28  26  26  28  27    47    19    0
   9    22  21  22  21  24  24  22  19  20  24  25  27  28  29  28  25  22  25  21  25  21  21  21  18    29    18    0
  10    19  17  15  16  16  15  19  19  21  21  22  23  26  27  25  27  25  26  23  22  16  16  14  13    27    13    0
  11    13  11  13  13  15  19  18  18  23  27  32  31 ***  32  28  29  29  31  17  26  27  25  22  24    32    11    0
  12    24  21  25  23  24  24  26  27  29  20  30  27  25  27  29  30  31  28  21  24  25  26  25  23    31    21    0
  13    15  15  12  12  11  11  11  20  23  21 ***  27  25  27  26  27  33  35  31  13  32  33  33  33    35    11    0
  14    30  25  26  19  19  20  21  23  20  29  30 *** ***  24  25  27  32  28  27  23  24  27  17  20    32    17    0
  15    17  15  16  17  15  13  14  15  18  17  16  19  21  20  24  23  24  30  29  28  24  25  23  22    30    12    0
  16    29  22  22  22  20  19  19  17  20  19  20  29  25  25  26  26  29  29  27  28  26  25  25  24    29    17    0
  17    23  16  17  18  16  18  22  27  28  27  28  27  26  29  28  22  24  24  22  22  21  23  18  19    29    16    0
  18    20  16  16  19  19  19  16  20  20  20  23  26  24  26  32  31  32  35  32  26  25  27  23  21    35    16    0
  19    20  23  21  19  20  18  15  11  21  31  36  38  37  34  35  30  17  38  33  24  27  25  26  24    38    13    0
  20    25  23  23  19  15  14  22  25 ***  21 ***  34  32  33  34  35  33  31  27  28  24  24  23  24    35    14    0
  21    25  21  21  21  21  19  20  21  28  35  43  32  31  35  32  40  37  36  34  33  35  35  34  26    43    19    0
  22    26  24  21  22  24  16  17  21  24  27  24  23  22  23  26  26  25  24  27  25  25  22  19  21    28    17    0
  23    23  21  22  25  23  22  21  28  26  25  26  29  24  21  18  25  28  26  32  30  31  30  27  24    32    18    0
  24    23  22  22  23  19  21  19  23  30 *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    30    14    0
  25   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  26   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  27   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  28   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  29   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  30   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
  31   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0
MONTHLY
VALUES  22  21  21  20  20  19  20  22  25  26  29  29  28  28  26  28  29  30  29  28  26  26  24  23    30    19    0
```

TABLE B1-5

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*****************************************************************************************************
13:59  11-APR-80            AQMS HISTORY  -  ONE HOUR AVERAGES  -  SUMMARY REPORT
*****************************************************************************************************
                                  FOR THE MONTH OF     MARCH     1980
STATION T2 ---- 225   WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                    H O U R                                                           DAY  DLY  8-HR
  DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN  AVG'S

    1     30  12 [illegible] 20  20  20  22  20  24  20  17  26  36  25  19  19  21  26  27  24  25  24  24  22      36   17    0
    2     30  29 [illegible] 20  20  20  20  22  20  21  24  25  20  27  10  22  20  25  22  21  22  20  21  16      30   11    0
    3     18  17  15  15  15  15  14  17  18  17  14  13  13  14  15  18  18  20  32  27  26  25  22  18      32   13    0
    4     15  16  20  11  20   7  16  20 ***  27  28  27  28 *** *** *** *** *** *** *** *** *** *** ***      28    7    0
    5    *** *** *** *** *** *** *** ***  15  19  15  26  31 ***  12  13  15  20  25  34  32  30  30  30      39   12    0
    6     29  27  26  22  21  24  24  22  34  40  61  63  56 *** *** ***  32  34  44  39  41  31  31  31      63   21    0
    7     29  26  24  26  26  25  21  25  30 ***  57  25 [illegible] 23  22  27  30  33  46  39  39  31  33  33      57   21    0
    8     29  21  19  21  22  24  25  24  49  39  32  13 [illegible] 12  15  13  20  30  28  29  31  29  26  31      49   12    0
    9     29  21  23  25  26  26  23  21  22  26  29  18  21  24  23  18  18  22  25  25  26  24  22  21      29   18    0
   10     18  11  11  12  11  13  16  20  21  24  25  26  24  25  23  20  24  25  15  12   8   6   7   4      28    4    0
   11      4   1   4   3   3  17  20  21  30  25 ***  33 ***  20  16  17  13  30  31  25  31  35  30  32      35    1    0
   12     31  29  27  28  27  29  29  32  36  31  26  25  26  21  13  28  14  19  25  22  27  23  17  12      36   12    0
   13      9   5   5   4   5   5   6  12  15  12  12  19  16  15  15  14  22  17  23  24  25  27 *** ***      27    4    0
   14    *** ***  22  23  16  15  21  21  28  28  28  20  27  20  21  27  23  18  19  19  13  18  14  11      28   11    0
   15     10   9  11   3   1   4   4   5   6   5   4   5   5   4   5   6  10  14  25  33  30  25  26  24      33    1    0
   16     25  25  23  25  20  19  17  19  20  16  20  21  22  21  26  26  26  29  29  28  27  25  26  25      29   17    0
   17     25  16  13  12  13  13  26  29  31  30  25  28  23  32  34  33  32  31  27  27  25  24  25  23      34   12    0
   18     22  22  22  21  20  19  18  19  19  15  12  17  15 *** *** ***  33  36  37  33  33  31  28  25      38   12    0
   19     22  22  16   6   6   7  16  16 *** *** ***  32  12  23  31  40  39  42  45  39  37  35  32  34      45    6    0
   20     32  21  25  22  15  16  23  33 ***  41  42  42  34  33  22  24  21  23  20  22  21  32  35  36      42   15    0
   21     35  18  11  29  24  22  31  46  57  51  45  28  24  28  24  30  23  24  28  30  40  41  43  45      57   22    0
   22     45  18  36  15  21  15  18  22  23  28  21  22  24  24  26  28  10  28  11   9   8   5   5   6      45    5    0
   23      8   8   5   5  19  24  25  30  28  27  17  14  12  10   7   9  11  12  12  13  23  33  11  31      33    5    0
   24     28  22  29  28  26  25  28  36  41  30  24  22  32  26  27  32  37  37  30  39  26  33  41  33      41   22    0
   25     31  31  25  29  27  27  31  42 *** ***  31  32 *** ***  28  29  40  34  35  30  38  37  45  31      42   25    0
   26     19  21  20  17  17  21  21  21 *** *** *** *** *** *** *** ***  33  34  38  33  27  26  27  25      38   17    0
   27     25  22  23  22  16  10  23  29  31  34  34  32  34  34  30  33  41  36  29  28  24  28  24  20      41   10    0
   28     17  12  26  27  30  20   4   7   5   5   5   8   7  10  12  10  12  14  29  32  29  27  26  25      37    4    0
   29     33  12  27  15   9  14  20  27  34  32 ***  33  33 *** *** ***  32  31  27  16  14  18  25  22      34    9    0
   30     23  16  24  20  16  19  21  23  24  21  10  12  12  13  10   9  21  29  44  34  38  32  31  24      44    9    0
   31     32  21  17  12  11  11  19  26  19  14  11  13  10 *** ***   9  10  11  13  16  23  24  21  21      32    9    0
NO. VALID
VALUES:   29  27  21  19  16  18  20  24  27  26  26  24  23  21  21  22  25  27  28  27  27  27  26  25      28   18    0
```

TABLE B1-5

```
13:59  11-APR-80          AQRS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

                                FOR THE MONTH OF    MARCH    1980

STATION T3 --- MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PART. PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
```

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#ZERO AVGS	[illegible]
1	32	17	26	23	21	28	26	26	28	26	20	20	20	20	19	21	29	29	22	26	26	24	23	22	32	17	0	[illegible]
2	24	24	23	21	22	23	22	24	21	21	24	21	29	28	24	28	24	24	25	22	22	23	22	21	29	21	0	[illegible]
3	22	20	18	17	15	13	23	18	19	13	13	11	11	12	15	20	20	21	21	22	24	20	15	16	24	11	0	[illegible]
4	11	21	22	18	12	21	***	***	***	24	21	20	20	20	***	***	22	22	26	27	28	25	25	27	28	11	0	[illegible]
5	22	24	25	25	24	21	26	24	32	29	30	24	***	0	1	[illegible]	0	1	7	7	6	4	0	0	32	0	4	[illegible]
6	2	1	0	0	1	0	4	7	6	0	1	0	1	0	0	0	0	0	1	1	2	2	3	0	7	0	11	[illegible]
7	1	0	0	3	0	0	2	3	1	4	1	0	0	0	0	0	0	0	3	4	4	2	1	4	4	0	11	[illegible]
8	3	0	2	2	0	1	3	3	5	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	5	0	14	[illegible]
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	[illegible]
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	[illegible]
11	0	0	0	0	0	0	2	8	2	1	1	0	***	20	21	22	21	31	39	31	30	39	18	34	39	0	7	[illegible]
12	33	33	30	29	32	33	31	37	24	25	21	18	19	21	24	20	19	23	17	17	18	14	11	15	37	11	0	[illegible]
13	12	11	8	9	6	8	11	24	22	17	17	18	21	17	17	17	19	22	24	23	22	27	***	***	27	6	0	[illegible]
14	***	22	21	18	23	25	29	34	29	23	26	***	19	14	20	18	18	17	16	13	13	15	12	12	34	12	0	[illegible]
15	7	8	6	4	8	11	13	18	19	14	13	11	8	8	8	8	9	13	22	26	29	30	27	30	30	4	0	[illegible]
16	27	31	29	30	26	21	18	18	17	14	15	16	13	9	17	26	25	28	28	31	18	19	20	18	31	9	0	[illegible]
17	13	10	8	9	11	11	20	30	37	30	22	21	23	26	25	32	37	37	34	26	29	29	28	30	38	9	0	[illegible]
18	26	20	23	18	21	23	26	26	25	20	19	14	19	21	21	28	31	33	31	34	30	30	29	28	34	14	0	[illegible]
19	25	25	20	9	14	19	20	20	31	38	18	19	***	15	17	20	21	20	31	38	36	33	32	31	38	9	0	[illegible]
20	33	20	17	13	12	9	21	32	***	34	30	31	21	22	27	28	25	24	18	17	19	25	17	19	34	9	0	[illegible]
21	18	17	21	22	19	15	19	24	29	32	42	20	17	22	17	24	15	20	22	32	29	28	30	30	42	15	0	[illegible]
22	31	11	20	23	20	14	15	17	19	16	16	14	18	16	19	18	14	15	12	13	8	7	6	5	31	5	0	[illegible]
23	3	2	0	7	7	20	20	22	15	10	14	4	5	6	7	9	9	11	14	15	26	29	24	24	29	0	1	[illegible]
24	20	27	21	23	23	22	23	37	28	24	20	14	13	14	12	12	16	21	27	33	34	31	30	29	37	12	0	[illegible]
25	28	29	27	27	25	26	24	35	***	***	27	28	***	29	19	***	20	34	29	34	30	30	29	32	35	14	0	[illegible]
26	15	14	18	20	14	16	12	26	22	12	11	10	***	9	10	10	15	14	19	27	34	31	29	28	34	9	0	[illegible]
27	25	24	26	24	18	12	17	25	28	25	24	25	25	25	24	26	28	30	28	28	26	28	25	17	30	12	0	[illegible]
28	16	15	16	29	11	29	8	10	9	8	7	8	8	8	10	10	9	11	21	29	24	26	24	23	31	7	0	[illegible]
29	30	30	23	17	17	31	17	33	31	28	***	25	27	26	25	27	30	28	25	20	14	14	18	11	33	11	0	[illegible]
30	24	23	22	21	22	20	20	21	20	11	8	10	9	8	10	8	11	11	19	16	22	27	36	33	36	8	0	[illegible]
31	20	23	16	10	11	11	17	26	22	25	18	12	15	***	***	11	9	11	12	13	20	24	21	17	28	9	0	[illegible]
MONTHLY VALUES	18	18	16	15	15	15	16	21	19	17	16	14	14	14	14	15	16	18	19	20	20	21	19	19	21	14	96	

TABLE B1-5

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*****************************************************************************************************************
13:59  11-APR-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                FOR THE MONTH OF    MARCH    1980
STATION 14     KENSINGTON  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                      H O U R                                                       DAY  DAY *ZERO DAY
  DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S AVE

    1     16   9  20  21  17  32  28  25  29  25  32  30  28  45  33  30  35  44  37  38  35  32  30  30    45    4    0   29
    2     37  36  26  16  15  12  16  20  17  17  17  18  23  22  20  19  30  31  31  29  30  28  27  27    37   12    0   23
    3     26  25  23  21  20  19  18  21  27  26  27  28  36  40  44  44  39  29  29  25  30  26  26  27    44   18    0   28
    4    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
    5    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
    6    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
    7    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
    8    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
    9    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   10    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   11    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   12    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   13    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   14    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   15    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   16    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   17    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   18    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   19    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
   20     18  22  23  17  13  11  14  22 ***  10  20  18  15  18  20  29  36  36  35  31  20  19  19  22    36   11    0   22
   21     19  17  19  15  17  18  16  15  17  21  31  33  31  29  30  33  30  31  28  33  34  31  33  27    34   15    0   25
   22     23  21  21  18  17  16  16  17  16  17  20  22  24  19  21  24  25  21  26  25  25  18  16  18    26   16    0   20
   23     21  17  14  17  15  16  17  18  19  12  16  14  16  16  16  16  16  22  26  27  28  28  27  24    28   12    0   19
   24     22  21  19  16  15  15  13  17  19  19  16  18  19  19  22  23  27  26  20  17  16  16  13  13    27   13    0   18
   25     11   9   9  17  27  20  23  28 *** ***  12   3 ***  31  23  42  32  35  44  37  30  28  26  26    44    3    0   25
   26     26  25  21  14  10  14  18  16  19  21  22  27  23  29  25  30  31  28  23  21  25  19  20  24    31   10    0   22
   27     17  12  11   9  11  13  19  28  25  25  26  22  22 ***  25  27  27  28  31  29  30  35  32  34    35    9    0   23
   28     36  29  27  15  22  27  23  16  16  12  11  10   9  13  18  22  22  23  38  30  27  26  32  29    38    4    0   22
   29     33  27  23  25  12  14  17  29  30  24 ***  17  18  25  23  22  22  23  29  32  31  26  23  28    33   12    0   24
   30     24  26  26  23  12  12  12  10  10  12  15  18  26  26  29  28  34  42  49  52  36  33  27  24    52   10    0   25
   31     36  13  12  11  10  12  25  33  22  30  30  32  28 *** ***  21  29  34  33  35  24  26  26  24    36   10    0   24
MONTHLY
VALUES    24  21  20  17  16  17  18  21  20  20  21  21  23  26  25  27  29  30  32  31  26  26  25  25    32   16    0
```

TABLE B1-5

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************************************************************************************************************************
 14:00  11-APR-80          AQMS MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT,
************************************************************************************************************************
                                  FOR THE MONTH OF     MARCH     1980
STATION T5      CONFEDERATION  PARK  -  BURNABY
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                   H O U R                                                DAY  DAY  #ZERO DAY
  DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN  AVE'S AVE
    1     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    2     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    3     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    4     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    5     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    6     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    7     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    8     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
    9     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   10     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   11     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   12     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   13     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   14     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   15     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   16     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   17     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   18     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   19     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   20     *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  ***  ***    0   ***
   21     *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  50  52  53  51  54  53  55  49  49   55   49    0   ***
   22      48  43  43  41  38  33  35  36  37  39  45  48  37  36  37  45  45  31  41  29  28 *** *** ***   48   28    0    38
   23     ***  25  25 *** *** ***  27  28  31  22  21  20  25  24  15 *** ***  26 ***  37 *** ***  41  43   43   15    0   ***
   24      39  38  40  42  45  43  42  42  45  51  42  37  28  32  37  28  28  32  32  28  29  28  27  24   51   24    0    36
   25      20  31  29  29  40  41  39  39 *** ***  63  51 ***  38  34  47  53  61  48  49  25 *** *** ***   63   20    0    42
   27      38  41  24  26  28  34  31  26  28  32  30  36  31  29  19  20  36  31  25  25  23  21  22  24   41   19    0    28
   28      24  21  19  20  19  24  24  24  30  33  29  29  25  23 *** ***  17  18  22  28  41  40  45  32   45   17    0    26
   29      37  40  47  34  21  36  37  29  21  23  23  23  11  10  15  14  14 ***  32  29  23  14  23  24   47   10    0    25
   26      38  31  32  30  29  30  36  46  45  34 ***  40  38  37  29  25  28  31  45  48  45  43  35  40   48   25    0    36
   30      23  21  27  28  22  18  21  15  19  20  24  21  24  26  28  17  26  40  30  46  25  28  27  29   46   15    0    25
   31      41  28  11   9  13  21  20  27  32  36  40  36  29 *** ***  23  29  35  41  52  35  40  32  38   52    9    0    30
 MONTHLY
 VALUES    34  32  30  29  29  31  31  31  32  32  35  34  27  29  27  30  33  36  38  39  33  34  33  34   39   27    0
```

TABLE B1-5

1-100 11-APR-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT.

FOR THE MONTH OF MARCH 1980

STATION T6 75 RIVERSIDE DRIVE - NORTH VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#ZERO AVE'S	DAY AVE
1	7	11	14	10	12	31	30	21	16	28	28	20	14	37	26	25	32	35	35	33	35	30	26	21	37	7	0	24
2	20	15	13	14	10	9	15	16	12	7	0	16	15	5	2	23	15	15	16	9	12	9	7	4	23	0	1	11
3	13	2	5	6	7	9	5	5	3	2	13	12	11	14	14	19	22	18	14	16	14	17	14	12	22	2	0	11
4	9	12	0	6	7	0	5	25	19	8	6	8	8	9	***	***	0	6	9	7	6	10	4	3	25	0	2	7
5	5	1	0	0	2	9	3	4	9	0	11	18	25	***	10	12	32	36	43	27	17	15	21	19	43	0	2	16
6	16	16	8	10	13	14	17	17	24	19	49	67	70	102	61	72	64	73	72	56	40	35	33	28	102	8	0	41
7	26	22	16	16	18	12	14	19	29	44	49	80	49	45	47	48	53	72	75	59	33	38	36	21	80	12	0	38
8	25	24	16	13	14	14	15	14	17	33	55	52	28	24	26	30	38	45	43	28	23	20	18	19	55	13	0	26
9	26	25	24	26	21	12	9	13	14	20	23	26	21	17	19	26	24	29	28	14	14	13	13	12	29	9	0	19
10	9	0	6	0	6	6	13	18	25	24	27	29	30	34	39	37	44	33	42	30	16	14	24	15	44	6	0	22
11	19	16	15	12	1	0	7	17	24	18	22	38	***	***	***	33	28	40	42	36	34	28	22	17	42	0	1	23
12	12	11	10	9	11	11	16	18	22	20	16	15	16	16	16	12	9	1	1	1	5	1	4	4	22	1	0	10
13	7	12	7	0	0	0	9	20	31	29	23	26	28	29	24	28	20	23	23	18	16	18	***	15	31	0	3	17
14	***	12	1	0	0	0	2	3	6	19	12	***	9	11	13	16	23	19	21	16	10	10	4	3	23	0	3	9
15	2	2	4	1	4	6	8	11	7	7	1	6	11	11	9	13	21	23	23	7	5	4	7	3	23	1	0	8
16	5	7	3	3	1	0	0	0	0	0	0	2	2	3	2	0	1	0	0	3	1	0	0	0	7	0	12	1
17	3	0	0	1	1	2	2	4	6	9	9	16	21	22	15	12	16	18	16	14	14	9	9	7	22	0	2	9
18	0	4	5	1	1	2	8	3	6	16	17	22	21	23	23	27	30	27	19	13	11	14	12	9	30	1	0	13
19	0	0	5	1	0	1	1	0	4	12	18	20	20	17	11	***	24	27	25	24	23	15	14	15	27	0	2	13
20	14	9	8	3	2	6	10	22	***	26	21	22	29	28	32	51	42	49	43	20	15	14	19	10	51	2	0	22
21	6	5	5	0	0	2	3	10	15	16	28	54	49	53	46	44	50	57	55	45	40	41	28	28	57	0	2	26
22	25	18	17	20	14	11	10	12	12	10	19	28	28	21	22	29	28	18	26	30	24	17	15	14	30	10	0	20
23	14	9	1	1	1	0	0	2	5	0	23	19	21	16	13	16	21	27	26	18	19	20	15	5	27	0	2	12
24	0	0	0	0	0	0	7	13	17	12	16	21	23	29	30	18	12	14	21	15	13	11	6	2	30	0	6	12
25	2	0	2	0	0	7	18	10	***	***	66	75	***	45	49	50	51	57	54	35	26	33	22	22	75	0	3	30
26	8	8	6	1	0	2	12	19	18	22	23	32	42	32	29	30	30	27	27	23	23	21	22	21	42	0	2	19
27	13	10	9	7	6	9	3	9	4	9	11	***	24	21	23	23	15	13	16	20	24	28	20	19	28	3	0	14
28	17	20	13	14	13	8	16	19	12	9	10	9	7	13	16	18	24	23	29	13	9	9	10	10	29	7	0	14
29	23	18	14	15	7	3	12	19	23	12	***	19	15	18	20	21	22	26	39	30	33	19	20	16	39	3	0	19
30	3	5	2	3	3	1	2	0	0	9	10	15	19	22	16	22	33	32	16	9	9	11	13	13	33	0	2	11
31	13	8	2	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	13	2	0	***
MONTHLY VALUES	12	10	7	7	6	6	9	12	14	16	21	27	23	26	25	26	27	29	30	22	19	17	16	13	30	6	45	

TABLE B1-5

```
**************************************************************************************************************************
14:01  11-APR-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
**************************************************************************************************************************
                                       FOR THE MONTH OF     MARCH     1980
STATION 77     ARMORE  ELEMENTARY  SCHOOL - ARMORE

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                         H  O  U  R                                                  DAY  DAY  #ZERO  DAY
  DATE    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   MAX  MIN  AVE'S  AVE

     1  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***   0    ***
     2  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***   0    ***
     3  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***   0    ***
     4  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***   0    ***
     5  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   27   33   44   53   52   46   42   43   33   32   25   23   17    53   17   0    ***
     6   14    9   10   14   13    9   10   16   15   19   32   38   30   38   35   38   37   37  ***   46   39   31   25   19    46    9   0     25
     7   16   11    9   10   10    9   12   18   17   33   60   75  101   92   69   84   82  ***  ***   55   46   36   26   20   101    9   0     41
     8   20   25   20   22   20   18   16   15   29   46   46   60   54   60   43   38   38   35   38   34   33   30   25   21    60   15   0     33
     9   20   19   18   17   15   15   15   14   14   14   21   21   21   26   26   24   25   25   22   20   16   15   15   12    26   12   0     19
    10   13   12   12   11   12    9   11   11   13   13   13   16   18   21   23   28   31   35   34   34   27   21   18   15    36    9   0     19
    11   11   11    9    9    9   13   17   22   10   10   15   18  ***   27   30   29   27   29   28   29   28   19   18   16    30    9   0     19
    12   13   14   14   12   11   10    9   13   27   20   17   14   15   16   17   14   13    8    9    8    9    9   12   11    27    8   0     13
    13   12   11    9   10   10   12   14   23   26  ***  ***   23   27   21   23   28   28   33   32   28   27   21  ***   17    33    9   0     20
    14  ***   11   11   11   10   11   10    8   14   26   21  ***   16   17   19   21   22   25   26   25   23   24   21   18    26    8   0     17
    15   18   17   17   14   13   28   18   18   19   24   29   20   19   17   17   14   15   23   23   25   20   22   21   17    29   13   0     20
    16   15   11   10   10    6    8   10    9    8    6    5    6    7   10    7    8    8    4    4    4    4    4    3    3    15    3   0      7
    17    2    2    1    2    2    2    2    6    3    5    8   11   21   26   12   12   11   11   11   12   10   10   11    9    26    1   0      8
    18   10    9   12   11   10   10   13   18   31   23   23   17   20   34   39   41   36   38   32   28   23   18   16   15    41    9   0     21
    19   13   12   11   12   10    8   10   12   11   21  ***   40  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    40    8   0    ***
    20  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   15   15   15   17  ***  ***   30  ***  ***   22   23   22   20   20    30   15   0    ***
    21   17   16   16   19   25   26   29   33   39   35   33   54   57   53   45   40  ***  ***  ***  ***   54  ***   31   28    57   16   0     35
    22   22   22   21   22   20   18   17   17   17   17   23   27   36   35   34   35   27   23   19   23   19   18   19   18    36   17   0     23
    23   18   15   16   17   13   15   17   16   18   36   24   25   28   34   49  ***  ***   24  ***   33   31   28   25   18    49   13   0     24
    24   17   17   15   15   15   14   14   15   15   18   19   22  ***   30  ***   19   19  ***   22   24   26   24   17   17    30   14   0     19
    25   15   14   13   14   12   14   19   20  ***  ***   69   91  ***  ***  ***  ***  ***   43  ***  ***   35   28   30   27    91   12   0     33
    26   28   31   24   20   16   14   16   20   23   19   30   36   35   31   29   25   27   21   22   22   21   20   19   17    36   14   0     23
    27   15   14   15   14   14   13   11   14   18   14   16   15   14   17   16   19   19   19   19   19   32   40   23   22    40   11   0     18
    28   22   20   25   20   19   18   17   23   20   23   19   16   18   19   17   15   17   16   13   20   19   18   17   15    26   13   0     18
    29   25   19   17   18   16   15   15   21   17   11  ***   15   16   19   19   18   16   15   15   20   31   26   21   20    31   11   0     18
    30   13   11   15   14   16   11   12   10   11   21   28   34   43   55  ***  ***   39  ***   33   20  ***   20   20   20    55   10   0     22
    31   23   20   19   15   15   14   13   21   25   15   29   29   30  ***  ***   29   24   31   31   24   22   21   18   17    31   13   0     22
MONTHLY
VALUES   16   15   15   14   14   13   14   16   18   21   26   29   29   32   30   29   28   26   24   26   26   22   20   17    32   13   0
```

TABLE B1-5

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*********************************************************************************************************
14:01  11-[illegible]              AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT
*********************************************************************************************************
                                   FOR THE MONTH OF    MARCH    1980
STATION T8--  LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL [illegible]
*** - INDICATES DATA UNAVAILABLE
                                                   H O U R                                                DAY  DAY  %
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN  AV

  1    27  31  21  24  20  25  27  22  25  22  25  27  31  19  16  18  28  28  29  28  20  23  20  19    31   16  [illegible]
  2    20  15  16  17  15  16  19  19  19  21  24  27  20  29  28  18  23  20  20  25  23  19  16  16    29   16  [illegible]
  3    11   7  11  15  15  19  12   8  13  15  13  10  12  11   8  12  16  19  18  18  14  18  15  11    19    7  [illegible]
  4    12  16  17  16  16  16  16  12  27  28  26  25  24  25 *** ***  29  30  37  21  35  31  31  24    34   12  [illegible]
  5    21  16  11  16  13  21  17  14  20  23  12  20  16  12   9   9   8   7  21  20  26  23  24  21    32    7  [illegible]
  6    22  22  20  18  18  17  17  19  28  34 *** ***  38  30  19  17  19  22  16  22  25  23  24  21    38   17  [illegible]
  7    21  26  19  20  20  14  16  15  23  30  34  30   9  11  11   9  10  13  23  27  24  27  24  20    34    9  [illegible]
  8    17  18  19  20  19  18  16  16  28  19  33  25  17  10  10  13  10  23  20  23  22  22  20  18    39   10  [illegible]
  9    17  17  17  17  16  19  16  17  17  19  21  25  26  20  27  24  21  27  20  27  24  22  20  17    28   16  [illegible]
 10    16  14  11  11  12  12  15  19  20  20  20  21  24  27  27  30  11  30  13   8   6   7   4  10    31    4  [illegible]
 11     7   9   9  10  15   9  10  14  20  23  20  31 ***  17   9   9   8   7  25  19  29  23  21  21    31    4  [illegible]
 12    10  15  16  17  14  10  19  20  32  24  21  21  22 ***  24  24  21  16  11  16  16  18  17  20    32   12  [illegible]
 13    17  15  18  11  10   9  12  25  22  15  13  20  14  14  11  14  16  24  23  20  28  29  12  32    32    9  [illegible]
 14    21  23  16  14  16  20  16  22  24  29  21 ***  18  19  16  17  21  19  25  17  16  22  16  17    29   14  [illegible]
 15    15  16  12  10   4  15   7  15  16   4   4   3   5   7   6   4   9  13  31  20  20  19  18  18    31    3  [illegible]
 16    17  17  16  19  17  19  15  17  15  20  13  15  15  15  19  22  19  24  24  23  20  19  15  18    24   13  [illegible]
 17    16  11   9   9   9  17  17  22  23  21  26  28  23  23  25  24  27  27  23  20  19  20  19  21    28    9  [illegible]
 18    20  17  16  15  15  14  17  15  16  11   8   9   8   8  12  11  14  24  32  20  26  25  21  20    32    8  [illegible]
 19    10  16  11  13  15   9  11  16  20  21  32  31  12  12  22  20  26  29  32  27  24  24  22  21    32    8  [illegible]
 20    16  14  16  10  10  11  12  25 ***  25  24  20  14 *** ***  11  10  22  13  19  20  23  19  15    25   10  [illegible]
 21    18  16  12  12  11  11  15  18  22  29  39  35  10  10  10  10   8  17  21  18  20  31  20  18    39    6  [illegible]
 22    16  15  15  17  16  16  16  15  18  18  18  22  22  19  22  23  27  25  12  10  13   7   4   7    27    2  [illegible]
 23     8   7  11  12  20  23  17  14  12  18  21  16  10   6   6  10  15   9   5  19  18  18  16  16    23    5  [illegible]
 24    19  12  12  12  10  11  10  14  20  22  20  19  15  15  15  20  16  17  20  23  20  19  21  23    24   10  [illegible]
 25    23  24  22  19  15  16  14  15 *** ***  30  24 ***  16  19  18  25  16  23  32  25  20  24  22    32   14  [illegible]
 26    17  13  13  13  12  13  11  12  17  32  30  31  24  21  27  21  29  31  30  20  23  22  21  18    32   11  [illegible]
 27    17  16  15  13  15   9  15  20  29  23  28  25 *** ***  27  23  23  22  23  27  31  35  30  23    35    9  [illegible]
 28    22  22  19  20  16  17  22   7   4   3   3   1   2 ***   8   4   5   7  22  25  21  23  20  20    25    0  [illegible]
 29    20  16  16  20  19  14  16  23  23  20 ***  20  20  30  21  29  26  24  10  18  20  17  18  18    30   10  [illegible]
 30    17  14  17  16  15  16  13  16  16  22  15  11  12  12  12  10  10  27  41  25  21  24  19  18    41   10  [illegible]
 31    13  13   6   7   9  10  11  19  16   9  11   7   5 *** ***   4   8   7  11  22  18  18  19  17    22    4  [illegible]
MONTHLY
VALUES:17  16  16  15  15  15  15  16  20  21  22  21  17  17  16  16  16  21  22  22  21  22  20  19    22   15  [illegible]
```

TABLE B1-5

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*******************************************************************************************************************
 14:02  11-APR-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************************
                                       FOR THE MONTH OF     MARCH     1980

STATION T10     3288  HASTINGS  STREET - PORT  COQUITLAM

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                       H O U R                                                            DAY  DAY  #ZERO DAY
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN  AVE'S AVE

   1   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
   2   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
   3   *** *** *** *** *** *** *** *** ***  20  20  24  10  27  29  22  11  12   9   7   9   7  13  13     29    7    0   ***
   4    13  12   7   9   2   0  14   9   8  20   2   7   6   2 *** ***   1   8  12   6  11  13   9  10     20    0    1     8
   5     1   1   2   1   2   6   3   3 *** ***  14  11   6   2   5  26  44  42  37  22  15   9   5   1     44    1    0    12
   6     4   6   7   6   4   7   5   8  31  30  26  21  13  12  21  31  35  35  31  24  12  18  11   6     35    4    0    17
   7     0  10  11   2   4   7   6  11  18  34  23  28  42  40  41  46  44  51  48  43  10  21  19  14     51    2    0    25
   8    18  13  10  13   8  11  11  13  23  23  26  31  30  30  33  34  35  37  36  26  16  16  15  23     37    8    0    22
   9    16  17  19  14   8   4   3   3   2   9  18  17  19  20   6  23  22  20  14  10   8   5   7   5     23    2    0    12
  10     5   2   3   0   2   0   1   4   7   5   1   5   6  12   7  22  22  25  21  23  22  16  14  12     25    0    2    10
  11    11  16  12   5   8   7   7  10  15  11  18  19 ***  11  11 ***  15  18  20  11  17  10  10   5     20    5    0    12
  12     7   4   5   2   7   6   4  10  18  22  10   2   1   5   2  10   0   1   0   6  16   8   2   4     22    0    2     6
  13     8   1   1   1   0   0  12  15  19  20  20  25  24  25  21  25  24  26  26  23  19  18 ***   7     26    0    2    15
  14   ***   0   0   0   2   6   8   0  16  19  15 ***   9   4   4  16  26  25  23  20  11  17  10  14     26    0    4    11
  15    17  14  16   0   7   9  13   7   6  11  12  24  25  23  20  21  25  25  23   9   1   3   2   0     25    0    2    13
  16     0   0   2   0   0   0   0   0   0   0   0   1   2   1   0   4   5   3   0   0   1   0   0   0      5    0   16     0
  17     0   0   0   0   0   0   1   0  12   2   1   9  19  18  10  12  13  19  24  21  13  14  12   9     24    0    7     8
  18     9  10   8  11   8  12  14  11  13  16  22  30  31  35  39  42  30  33  30  24  21  21  18  15     42    8    0    20
  19    12  11  14  14  11  10  11  10 *** ***  23  23  19  18  18  13  16  18  16  13  12   9   9   7     23    7    0    14
  20     7  13  11   6   6   6   7  10 ***  13  16  13  12  11  23  38  43  45  42  20  14  11  10  13     45    6    0    17
  21     8   9  11  13  13  15  10   8  14  16  25  30  34  35  37  34  41  39  37  37  37  30  22  17     41    8    0    24
  22    15  15  14  12  10  10  11  13  17  12  15  18  19  26  28  30  23  13  19  28  22  23  25  24     30   10    0    18
  23    13  14  11  10  12  10  10  14  18  23  13  15  23  30  30  33  15  13  19  21  17  15  14  13     33   10    0    17
  24    12  12  13  12   9  12  11  27  25  18  20  15  18  24  29  14  13  10  10  11  10   8   7   5     29    5    0    14
  25     4   7   4   7  12  12  13  22 *** ***  20  31 ***  33  31  40  41  49  43  38  33  18  18  19     49    4    0    24
  26    11  11   9   8   9 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     11    8    0   ***
  27   *** *** *** *** *** *** *** *** *** *** ***   7   7  15  16  19  10  13  12  13  22  18  14  14     22    7    0   ***
  28    12  13  16  15  11  18  26  30  31  29  27  30  26  27  29  31  37  35  31  15  12   9   8  10     37    8    0    22
  29    15  15  15  18  16  11  21  21  17  14 ***  14  14  17  17  15  12  16  14  26  25  24  25  13     26   11    0    17
  30    19  11  11  10  12  13  13  11  20  25  22  19  33  35  31  38  50  54  56  40  15  15  13  10     56   10    0    24
  31    13  25  14   7   7   7  10  12  30  27  36  36  33 *** ***  37  40  39  39  40  34  16   9   9     40    7    0    23
MONTHLY
VALUES  10  10   9   7   7   8   9  11  16  17  17  19  19  20  22  26  25  26  25  21  17  14  12  10     26    7   36
```

TABLE B1-6

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**************************************************************************************************************************
15:17  01-MAY-80          AQMS MONTHLY  -  ONE HOUR AVERAGES  -  SUMMARY REPORT
**************************************************************************************************************************
                                   FOR THE MONTH OF    APRIL    1980
STATION 11     ROBSON SQUARE - ROBSON AND HORNBY - VANCOUVER
NITROGEN DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                    H O U R                                                     DAY  DAY  #ZERO
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN  AVE'S
  1   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  2   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  3   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  4   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  5   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  6   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  7   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  8   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
  9   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 10   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 30*   26  27  27  27  26  26  33 ***  69  49  41  41  43  37  31  44  46  36  50  57  64  50  43  44     69   26    0
 16   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
 17   *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  44  43  43  42  41  40  44  33  32     44   32    0
 18    31  32  31  29  30  28  30  32  31  33  34  40  38  39  38  38  39  36  38  35  34  35  35  35     40   28    0
 19    31  31  31  27  23  25  26  30  32  32  34  36  39  42  43  44  44  40  41  40  37  35  34  34     44   23    0
 20    35  33  30  30  30  30  30  26  21  21  20  21  23  22  20  22  26  24  21  25 *** *** *** ***     35   20    0
 21   *** *** *** ***  30 *** *** *** *** *** *** ***  25  24  27  28  32  33  35  35  32  31  18  16     35   16    0
 22    18  22  21  21  22  21  25  27 *** *** ***  63  54  53  54  49  61  55  56  59  55  54  47  45     63   18    0
 23    44  40  40  41  41  41  45  47  48  49  45  44 ***  42  48  48  64  67  61  63  65  65  59  52     67   41    0
 24    47  38  40  38  26  26  32  49  47  55  46  44  40  40  38  41  60  55  49  55  57  54  40  40     60   26    0
 25    39  37  39  35  32  35  40  40  44  61  63  66  69  73  66  59  52  51  45  43  49  48  46  47     73   32    0
 26    43  40  51  45  39  40  41  49  45  61  58  43  37  37  37  38  39  38  42  47  47  45  45  41     61   37    0
 27    31  41  39  39  37  34  43  50  51  63  67  63  55  51  53  57  55  46  51  63  68  55  47  43     68   34    0
 28    37  40  45  48  42  45  45  47  49  53  45  47  45  47  48  54  51  48  51  40  43  35  34  32     54   32    0
 29    27  26  22  20  21  23  30 *** *** *** *** ***  26  28 ***  32  38  33  36  40  44  34  28  27     44   20    0
 15*  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0
MONTHLY
VALUES 35  34  33  34  31  31  35  40  44  47  45  46  42  41  42  42  46  43  44  46  49  45  39  38     49   41    0
```

* Note: 15 and 30 April transposed.

TABLE B1-G

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*****************************************************************************************************************
15:13  01-MAY-80          AQMS MONITOR  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                               FOR THE MONTH OF    APRIL    1980
STATION 12      2294  WEST  10TH  AVENUE - VANCOUVER
NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                    H O U R
DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY  #ZERO
                                                                                                         MAX  MIN  AVE'S
  1     15  21  19  16  17  17  19  20  19  18  12  13  15  13  17 ***  13  17  30  30  33  33  34  34    34   12    0
  2     34  31  26  25  23  26  30  14 ***  40  35  26  17  21  19  18  23  26  32  43  40  41  40  39    43   17    0
  3     38  32  30  33  34  33  32  37  31  23  24  34  32  32  36  33  30  33  45  51  48  46  41  39    51   21    0
  4     38  37  35  35  31  31  23  16  28  29  22  23  18  15  18  17  18  23  38  35  32  30  25  32    38   15    0
  5     16  15  20  19  14  11  15  20  19  19  15  19  19  20  13  17  14  15  11  12  11  11  19  15    20   11    0
  6     26  15   7   5   4   3   7  10   5   3   4   4   6   8   8   4   5   7  12  15  20  21  16  25    26    3    0
  7     27  30  27  21  20  15  17  22  23  20   9  16  27  25  28  20  26  28  30  25  20  13  20  19    30    9    0
  8     18  12  15  18  16  14  20  22  22  18  20  22  23  22  23  20  27  36  33  34  28  28  28  18    36   12    0
  9     13   8   5   5   9  14  14  32 ***  14 *** *** *** ***  24  14  22  30  34  31  35  32  30  28    35    5    0
 10     28  24  25  16  14  10  17  22  24  26  19  29  27  30  34  28  17  16  11  37  36  25  24  24    37   11    0
 11     29  21  20  19  10  15  16  20  22 *** *** *** *** ***  27  33  33  38  37  40  38  36  33  31    40   15    0
 12     27  23  19  21  21  21  20  40  34  14  15  16  16  18  21  35  56  55  47  40  46  47  41  43    56   14    0
 13     40  37  39  10  35  12  35  44  50  45  26  18  16  16  17  16  18  19  20  20  10  17  13  15    50   13    0
 14     15  10   9   8   9  17  22  26  26  38  45  43 *** *** ***  40  41  39  36  21  16  17  23  12    45    6    0
 30 *   21  21  17  16  19  19  24  35  33  16  15  12  13  14  15  14  16  16  29  32  32  32  27  30    35   12    0
 16     30  30  20  21  23  22  27  27  34  32  43  59  36  52  35  36  49  26  26  40  32  33  34  34    59   22    0
 17     32  29  27  27  27  20  27  30 *** ***  30  37  12  33  40  41  45  41  40  37  37  38  34  32    45   26    0
 18     31  30  30  20  24  26  28  30  31 *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    31   24    0
 19    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0
 20    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0
 21    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***  12  14  18  33  28  28  24  23    33   12    0
 22     26  23  23  22  19  20  24  31  34 *** ***  28  29 ***  29  26  27  26  28  31  34  33  33  31    34   19    0
 23     26  26  25  23  17  16  21  20  20  20  18 *** *** ***  16  23  23  30  21  23  27  38  37  31    38   16    0
 24     13   9  11   8   3   9   7 *** *** *** *** *** *** *** *** ***  24  30  30  34  33  34  30  30    34    3    0
 25     27  25  25  23  18  24  23  25  27  31  30  43  35  41  41  30  26  11  23  18  16  15  14  21    43   14    0
 26     27  13  13  20  19  23  29  33  36  32  19  12  11  10  10  11  13  18  19  22  19  30  24  26    36   10    0
 27     18  19  26  22  21  19  28  32  35  36  32  20  22  20  21  24  19  21  40  38  56  51  43  35    56   10    0
 28     29  38  37  33  16  17  23  32  34  29  28  29  24  27  25  29  20  26  38  34  16  11   7   5    38    5    0
 29      3   2   2   2   2   4   4 *** *** *** *** ***   9   6 ***   8   9   9  10  19  31  29  26  23    31    2    0
 15 *    7   9   6   6   9   6  10  17  25 *** ***  28  20  21  18  23  23  29  28  30  32  31  29  29    38    4    0
NUMBER OF
VALUES  24  22  21  20  16  18  21  27  28  25  24  25  22  22  23  24  24  26  28  31  30  30  28  27    31   18    0
```

* Note: 15 and 30 April transposed.

TABLE B1-6

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**************************************************************************************************************
15:13  01-MAY-80            AQRS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT
**************************************************************************************************************
                                   FOR THE MONTH OF    APRIL    1980
STATION 13     MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE
                                                 H O U R                                                   DAY   DAY  #ZERO  DAY
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN  AVE'S  AVG

   1     12  15  17  19  10  17  21  27  24  18  10  10  11  10  11  13  14  17  21  26  30  31  30  28    31    10    0   [illegible]
   2     26  27  26  27  25  28  29  35 ***  38  19  17  18  17  14  15  20  25  33  36  36  36  32  34    38    14    0   [illegible]
   3     38  28  37  35  36  34  32  36  41  40  30 *** ***  18  14  15  16  23  25  35  33  35  40  38    41    14    0   [illegible]
   4     39  37  34  21  20  15  19  21  16  19  18  14  12   6   6   6   7  11  29  31  25  30  30  19    39     6    0   [illegible]
   5     12   9  16   6   1   4   9  14  13   9   7   8   9   5   1   5   3   4   3   8  11  11  21  13    21     1    0   [illegible]
   6     14   8   0   0   0   3   5   8   6   0   1   2   3   7   4   1   3   6  12  22  25  17  14  19    25     0    4   [illegible]
   7     23  25  24  15  12  10  12  17   9   6   7   4   5   9  10  12  15  25  29  28  22  13  14  14    29     4    0   [illegible]
   8     13  17   9  10   9  10  18  22  14  13  12   9  14  11  13  13  12  15  16  24  25  14  11   8    25     8    0   [illegible]
   9      5   5   6   4  14  15  19  23 ***   9  12   7   8   9   8  10  16  16  14  17  17  25  25  26    26     4    0   [illegible]
  10     19  17  18  17  17  10  16  16  12  10   6   9   8   7  11  10  12  11  19  28  29  23  21  20    29     7    0   [illegible]
  11     20  21  18  16  17  15  18  18 ***  26  33  33  22  21  25  30  36  37  41  40  38  36  33  25    41    15    0   [illegible]
  12     34  32  26  28  26  26  27  41  53  56  23  22  20  27  34  44  38  35  35  36  36  41  40  38    56    20    0   [illegible]
  13     40  31  30  33  32  36  33  24  24  26  30  24  20  18  24  26  22  27  28  29  29  27  20  20    40    18    0   [illegible]
  14     18  20  17  11  13  16  24  36  37  41  42  36 *** *** ***  26  29  10  23  16  15  16  13  10    42    10    0   [illegible]
  30 *   23  24  22  25  24  20  21  31  37  26  16  11  11  11  16  14  12  17  16  23  21  26  23  29    37    11    0   [illegible]
  16    *** *** *** *** *** *** *** *** *** *** *** *** ***  17  14  18  22  27  31  32  31  29  33  27    33    14    0   [illegible]
  17     26  32  30 ***  28  27  26  26 *** ***  18  16  17  16  21  26  34  35  35  36  33  30 [illegible] 30    36    16    0   [illegible]
  18     27  28  25  22  21  26  25  27  28  30  29  28  23  26  13  28  31  27  28  29  28  27  16  17    33    12    0   [illegible]
  19     12  11  10   9   8  10   9  11  13  12  15  20  20  16  15  16  23  24  18  19  19  25  27  24    27     8    0   [illegible]
  20     19  16  16  16   9  15  17   9   7   6   4   7   6   6   6   8   8  12  11  12 *** *** *** ***    19     4    0   [illegible]
  21    *** *** *** ***   9 *** *** *** *** *** *** ***   8 ***   8  11  12  15  21  27  29  25  21  21    29     8    0   [illegible]
  22     17  24  23  24  26  21  23  20  23 *** *** *** ***  12  11  11  12  12  13  20  18  23  23  27    28    11    0   [illegible]
  23     30  30  31  31  28  25  23  19  12  10   9   8 ***  10  11  11  13  15  20  32  36  41  38  33    41     8    0   [illegible]
  24     21  18  15  19  10  10  11  20  17  11   9   6   6  10   9   9   9  10  15  20  21  31  31  32    32     6    0   [illegible]
  25     27  25  24  26  25  23  25  24  20  17  17  16  17  12  28  21  25  21  18  17  16  18  17  28    28    12    0   [illegible]
  26     25  14  15  17  15  20  23  28  33  29  15  11  10  10  11  12  14  16  17  26  29  24  18  18    33    10    0   [illegible]
  27     24  19  14  21  17  19  27  27  18  15  12  15  18  13  13  12  17  19  22  30  42  35  40  42    42    12    0   [illegible]
  28     41  34  26  29  17  19  26  21  21  16  12  15  11  10  10  13  14  23  23  21  21  18  11   9    41     9    0   [illegible]
  29      8   8   6   6   6  10  11 *** *** *** *** ***   9   8 ***   9   8  10  12  21  19  26  24  25    26     6    0   [illegible]
  15 *    7   8   3   5   7  15  14  26  11 *** ***  10 *** *** *** *** *** *** *** *** *** *** *** ***    26     3    0
MONTHLY
VALUES   22  21  19  16  17  18  20  24  21  20  16  14  13  13  14  15  17  19  22  26  26  26  25  24    26    13    4
```

Note: 15 and 30 April transposed.

TABLE B1-6

```
***************************************************************************************************************
15:13  01-MAY-80          AQRS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
***************************************************************************************************************
                                        FOR THE MONTH OF     APRIL     1980

TATION 14       KENSINGTON  PARK - BURNABY

ITROGEN  DIOXIDE
ITS ARE PARTS PER MILLION
SSUMED DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE
                                                     H  O  U  R                                                    DAY   DAY  #ZERO  DAY
DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN  AVE'S  AVE

  1   25  22  19  17  20  21  22  36  32  40  47  43  36  32  23  28  43  49  48  42  24  15  16  18    49    15    0     30
  2   13  12   8  12   8  11  22  28 ***  41  35  28  32  24  23  26  37  42  41  48  26  21  20  23    48     8    0     25
  3   20  26  44  37  27  15  26  37  48  65  59  39  23 *** ***  16  18  30  42  52  38  30  25  20    65    15    0     33
  4   20  15  29  33  33  27  21  14  20  20  21  17  17  15  16  19  17  21  22  19  16  22  31  21    33    14    0     21
  5   18  18  14  15  12  10  12  13  14  15  17  16  20  19  15  16  17  18  15  13  15  26  31  28    31    10    0     17
  6   21  12  11  10   7   9  12  16  15   9  10   9  11  18  12  12  18  13  24  34  32  33  27  25    34     7    0     17
  7   21  20  13  14  17  13  16  21  22  17  18  20  22  25  28  27  25  25  25  19  14  15  16  13    28    13    0     19
  8   18  19  15  13  13  13  20  23  23  19  18  19  16  17  18  17  23  21  13  13   9  16  15  11    23     9    0     17
  9   11   5   6   6   8  11  16  31 ***  26  20  13  13  16  15  17  24  38  25  27  33  26  20  20    38     5    0     19
 10   11  12   9   9   9  11  16  27  31 ***  23  27  27  30  34  31  29  33  36  35  25  21  18  19    36     9    0     23
 11   18  15  14  13  15  20  26  29  38  40  42  46  61  69  64  67  65  65  60  28  20  13  33  41    69    13    0     37
 12   25  18  22  26  25  25  25  31  31  46  57  58  48  45  56  60  75  54  45  34  23  21  22  23    75    18    0     37
 13   22  25  35  27  22  26  40  38  37  30  41  50  42  37  27  37  43  46  58  57  59  47  43  44    58    22    0     38
 14   43  42  39  36  27  21  24  42  50  43  35  22 *** *** ***  25  35  33  20  32  33  22  16  14    50    14    0     30
 15 X 19  17  15  15  18  22  26  36  32  38  45  30  25  23  25  32  39  37  55  56  57  46  42  42    57    15    0     33
 16   10   9   9  13  13  16  33  36 ***  46 ***  47  45  48  30  35  45  50  51  50  48  38  38  33    51     9    0     35
 17   37  31  33 ***  31  27  27  33 *** ***  21  26  31  29  33  41  31  23  22  22  21  19  16  17    41    16    0     27
 18   22  21  15  16  16  18  21  27  24  25  25  28  29  23  24  25  26  23  23  25  24  13  12  15    28    12    0     21
 19   13  12  12  12  13  11  13  12  17  17  20  25  28  32  36  41  41  42  38  43  38  38  35  37    43    11    0     26
 20   37  39  30  25  28  18  18  20  18  18  16  20  18  18  16  16  22  27  28  32 *** *** *** ***    39    16    0     23
 21  *** *** *** ***  27 *** *** *** *** *** *** ***  20 ***  22  26  35  39  39  42  42  43  41  37    43    20    0    ***
 22   33  28  19  23  18  19  25  37  48 *** ***  29  34  34  28  23  17  24  27  44  40  38  30  17    48    17    0     29
 23   20  20  19  14  15  25  26  22  23  22  23  22 ***  14  18  20  20  27  36  48  57  52  52  52    57    14    0     28
 24   40  33  32  41  39  37  38  37  40  31  32  28  17  15  13 ***  14  19  20  39  40  31  28  23    41    13    0     30
 25   17  18  24  12  14  22  23  31  32  35  40  20  15  25  22  23  47  51  50  43  39  43  47  38    51    12    0     30
 26   32  35  37  35  35  32  34  31  20  23  28  34  45  36  27  29  30  41  37  52  51  34  33  35    52    20    0     34
 27   34  37  32  32  30  28  23  22  23  24  23  31  40  47  41  28  27  31  43  52  60  50  44  27    60    22    0     35
 28   24  30  30  19  24  27  34  29  39  39  34  26  24  26  25  28  32  25  35  38  28  27  15  13    39    13    0     28
 29   11   7   6   6   7  18  18 *** *** *** *** *** ***  14 ***  13  16  14  19  34  38  29  25  24    38     6    0     17
 30 X 14  14  13  18  15  22  16  28  24 *** ***  28  16  16  15  15  15  18  23  23  22  20  15  12    28    12    0     18
ONTHLY
ALUES 22  21  21  20  20  20  23  28  29  30  30  29  28  28  26  27  31  33  34  37  33  29  28  26    37    20    0
```

TABLE B1-6

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15:14  01-MAY-80          AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

                          FOR THE MONTH OF    APRIL    1980
TATION 15     CONFEDERATION PARK - BURNABY

ITROGEN DIOXIDE
ITS ARE PARTS PER MILLION
SUMED DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE
```

	HOUR																								DAY	DAY	#ZERO	DAY
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	MAX	MIN	AVE'S	AVE
1	36	24	33	38	36	38	41	45	38	67	58	35	29	28	24	36	39	44	51	38	40	44	47	45	67	24	0	39
2	25	17	16	22	34	38	27	13	***	41	43	41	34	20	17	15	27	36	44	28	28	31	39	48	48	13	0	29
3	51	46	49	49	34	23	39	30	49	55	59	47	28	40	***	***	32	39	52	49	30	23	22	22	59	22	0	39
4	22	21	42	39	43	32	26	28	27	20	18	10	13	14	15	15	14	16	16	14	14	18	25	25	43	10	0	22
5	24	24	14	14	15	12	11	13	13	13	12	16	25	24	23	21	21	16	19	16	27	32	33	22	33	11	0	19
6	27	19	16	16	14	15	14	15	10	6	9	9	12	15	13	13	14	18	26	32	24	24	17	16	32	6	0	16
7	18	20	17	13	13	12	12	11	14	11	6	8	7	6	10	9	3	***	4	3	6	12	9	5	26	3	0	10
8	2	15	12	9	6	4	4	7	7	7	7	6	3	4	4	4	3	5	5	3	3	7	4	6	15	2	0	6
9	3	5	5	5	6	9	15	13	***	15	12	7	7	11	9	10	20	20	9	8	14	14	13	12	20	3	0	10
10	10	10	7	7	7	8	12	13	***	24	13	12	10	11	12	14	17	26	28	18	14	11	17	10	28	7	0	14
11	5	5	5	7	14	13	18	23	37	33	23	20	38	39	38	41	36	44	44	35	34	19	27	17	44	5	0	26
12	25	24	20	15	20	32	33	36	27	38	30	33	21	28	36	47	44	18	18	10	21	19	23	10	47	10	0	26
13	13	23	13	22	23	32	31	19	18	16	35	36	20	15	17	23	22	29	37	37	34	32	32	30	37	13	0	25
14	31	30	26	23	18	14	17	31	39	21	5	4	***	***	***	3	5	12	16	28	22	11	10	11	39	3	0	17
30 x	7	6	4	8	16	10	7	17	16	28	20	14	9	7	14	22	23	27	33	35	44	38	29	29	44	4	0	19
16	15	25	15	19	15	11	16	29	***	34	***	24	33	34	16	20	36	43	41	41	32	34	29	27	43	11	0	27
17	21	25	27	***	27	17	22	28	***	***	14	17	20	21	23	15	6	5	4	5	8	8	5	5	28	4	0	16
18	5	5	2	7	5	4	1	1	1	2	0	0	1	1	0	8	21	14	16	23	22	12	12	14	23	0	3	7
19	12	9	9	9	8	9	10	10	13	11	17	18	17	24	26	31	27	36	37	39	37	34	27	30	39	8	0	20
20	30	33	26	20	22	16	15	8	11	10	9	7	6	7	7	8	10	16	17	21	***	***	***	***	33	6	0	15
21	***	***	***	***	21	***	***	***	***	***	***	***	11	***	11	11	16	17	23	28	24	26	26	20	28	11	0	***
22	22	20	18	20	16	12	12	20	21	***	***	15	16	17	13	10	11	15	19	20	21	20	17	19	22	10	0	17
23	16	15	15	12	14	11	12	11	11	9	9	9	***	6	6	7	13	19	26	34	35	31	30	30	35	6	0	16
24	33	27	26	27	20	18	17	8	***	20	21	16	8	8	8	9	11	17	20	31	25	24	8	10	33	8	0	18
25	7	4	6	6	10	23	21	25	23	27	22	7	7	1	3	13	34	36	39	42	26	34	40	32	42	1	0	21
26	29	25	23	26	25	24	24	17	14	14	14	22	28	14	11	12	14	20	21	20	32	32	29	25	32	11	0	21
27	26	26	24	22	23	19	13	15	10	15	16	26	32	30	23	15	12	22	39	33	29	28	31	17	39	10	0	23
28	9	22	24	14	14	21	28	27	28	27	24	16	14	16	17	16	12	31	30	25	21	20	11	10	31	9	0	20
29	7	4	4	4	7	14	18	***	***	***	***	***	4	3	***	9	11	11	15	24	17	10	9	12	24	3	0	10
15 x	12	13	6	5	5	5	12	21	15	***	***	14	11	10	8	10	13	17	14	14	4	9	10	12	21	4	0	11
TIMES VALUES	19	19	17	17	18	17	16	19	20	23	20	18	17	16	15	16	19	23	25	25	24	23	22	20	25	15	3	

TABLE B1-6

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*****************************************************************************************************************
15:14  01-MAY-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                   FOR THE MONTH OF    APRIL    1980
STATION 10     75  RIVERSIDE  DRIVE - NORTH  VANCOUVER

NITROGEN  DIOXIDE
 UNITS ARE PARTS PER MILLION
OUTPUT DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE

                                                    H O U R                                                  DAY  DAY  #ZERO DAY
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN  AVE'S AVE

  1   *** *** *** *** *** *** *** *** *** *** *** *** ***  20  23  22  25  25  31   7  12  19  15  15    31    7    0   ***
  2     5  10  10   9   6  15  15  20 ***  25  40  36  19  24  24  26  30  31  32  10   9  15  22  25    40    5    0    19
  3    23  16  15  17  13   3   5  21  31  43 ***  75  61  63  36  48  20  24  30  32  19  25  27  20    75    3    0    29
  4    12  12  11  30  28  16  15  15  21  15  10   8  10   9   8   8  10  16  10   8  10  10  11  17    30    8    0    13
  5    14   7   6   5   4   5   6   8   6   6   4   8  13  15  14  12  12  19  16  11  22  21  31  18    31    4    0    12
  6    20  10  10   9   7   7   5   7  11   7   8  10  11  15  16  14  21  29  18  16  13  17  18  14    29    5    0    13
  7    15   5   5   1   2   6  10   7   7   8   9  14  15  15  13  12   9  15  16  13   8   8   9   8    16    1    0    10
  8     4   5   1  10  10   9  15  15  21  23  24  24  16  15 ***  12   8   8  12  11   9   9   7   5    24    1    0    12
  9     1   1   6  11  10  14  13  21 ***  32  29  26  17  25  21  17  33  28  17  21  26  24  24  12    33    1    0    19
 10    14   9  12  11  13   6  12  24  29  25  25  26  22  23  28  29  30  55  40  27  13  12  13  13    55    6    0    21
 11    11   4   6   7   2   6   8  30  40  49  36  64 *** ***  43  48  54  52  50  33  14  20  31  12    64    0    2    30
 12    17  12  17  10  15  19  17  31  42  46  37  34  27  27  40  54  64  45  15   6   0   8  11  13    64    6    0    26
 13    11  13  16  17  22  18  18  22  26  30  33  35  22  23  29  30  31  30  32  32  28  26  26  20    35   11    0    24
 14    18  19  20  20  17  15  13  20  28  26  10  11 *** *** ***  10  10   8   5  13  15   9  10  10    28    8    0    14
 30    12   5  12  15  12  11  21  69  62  56  50  36  33  36  40  40  36  54  75  76  67  46  41  31    76    5    0    39
 16     1   1   2   3   0   5   2  13  27  30 ***  26  40  36  37  20  26  35  34  30  13  14  17  17    40    0    1    19
 17    18  17  10 ***  12  10  12  13 *** ***  14  17 *** ***  35  34  20  12  10  12  14  10  10   7    35    7    0    15
 18     8   9   8   4   5   6   6  15  22  21  17  17  16  17  16  21  30  14  12  18  21  17  12  10    30    4    0    14
 19    12  10  14  14  11  10  12  11  14  12  25  24  33  28  16  22  36  33  44  40  29  29  24  27    44   10    0    22
 20    35  33  29  23  10   7   7   8  14  11   9   8   6   9  10  13  16  22 *** *** *** *** *** ***    35    6    0    15
 21   *** *** *** ***  10 *** *** *** *** *** *** *** *** ***  17  18  23  30  34  34  29  24  18  16    34   10    0   ***
 22    10   8   6   5   3   4   5  14  30 *** ***  32  29  31  25  18  15  19  21  22  23  23  19  17    32    3    0    19
 23    14   9   4   4   0   6  11  10  15  23  22  16 *** ***   8  18  18  18  25  45  33  18  24  19    45    4    0    17
 24    21  15  15  10  13  12  18  22  21  16  25  26  22  22  21  22  13   8  16  31  20  15  17  14    31    8    0    18
 25    10   4   3   5   0  13  11  16  33  36  34  23  12  14  22  27  33  38  38  32  33  39  27  30    39    3    0    22
 26    22  19  12  18  12  10  13  15  14  21  27  43  33  20  23  27  24  27  35  42  34  24  23  23    43   10    0    23
 27    23  21  22  20  20  15  12   8  35  31  32  35  39  33  26  38  47  54  51  57  24  23  31  22    57    8    0    30
 28    15  15  15  17  11  21  21  29  40  35  42  26  25  24  18  17  19  47  34  20  21  29  10  11    47   10    0    24
 29    13   8   5   4   7  20  41 *** *** *** *** ***  20  22 ***  26  25  27  33  53  33  19  13  17    53    4    0    22
 15    13  13   9   7   7   8   9  14  18 *** ***  13  13  12  11   9   9  10   9   7   0   2   1   1    18    1    0     9
NO.VALID
VALUES 14  11  11  12  10  11  13  18  20  26  24  20  23  23  23  24  25  28  28  20  21  19  19  16    28   10    3
```

TABLE B1-6

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*********************************************************************************************************
15:15  01-MAY-80          AQRS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*********************************************************************************************************
                                    FOR THE MONTH OF    APRIL    1980
STATION 17     ARMORE  ELEMENTARY  SCHOOL - ARMORE
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                H O U R                                                          DAY  DAY OZONE DAY
DATE      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S AVE
  1      17  17  15  13  13  13  17  20  23 *** ***  66  59  63  30  41  34  20 ***  33  24  17  16  15    66   13   0   27
  2      16  13  11  12  12  13  16  15 ***  13  13  15  15 *** ***  16  17  16  18  18  20  18 ***  16    20   11   0   15
  3      15  14  24  34  34  26  21  23  40  57  56  50 ***  38 ***  36  32 ***  33  37  32  23  17  16    57   14   0   31
  4      19  15  13  17  14  14  15  11  12  11  12  10  11  12  11  12  12  13  14  14  11  11  10   9    19    9   0   12
  5       8  11   8   7   8   5   6   7   7   7   8  11  16  18  16  16  17  14  15  17  21  18  19  20    21    5   0   12
  6      14  10   9  12   9   7   7   9   8  10  13  13  13  14  13  17  18  22  22  20  16  22  20  13    28    7   0   14
  7      11  11  11  10  10  10   9  10   9  11  10  10  10   9  10   8   8  10   9   8   7   9   8   6    11    6   0    9
  8       7   5   5   7   4   6   7   5   8  10  12  10   6   9   8  10  10   9  10  10   9   8   7   5    12    4   0    8
  9       5   5   5   9   8   8   7   9 ***  13  16  13  14  14  15  14  17   9   8  10  11  11  10   9    17    5   0   11
 10       9   9   6   8   8   9  11  14  18  20  18  18  17  16  18  17  19  27  18  21  21  21  16  13    27    8   0   15
 11       9  10   9   8   7   7   8  15  29  25 ***  45  45 *** ***  ***  *** 20  20  18  17  14  12  13    45    7   0   21
 12      13  11  11  12  10  10  11  21  42  26  53  75 ***  85  69  26  28  33  32  31  23  21  21  16    85   10   0   29
 13      16  17  14  14  12  14  18  22  62  75  78 ***  59 ***  77 *** *** *** *** ***  23  24  26  24    78   12   0   35
 14      20  17  24  57  31  20  21  35  44  19  13  13 *** ***  ***  13  14  14  14  16  18  19  18  18    57   13   0   21
 30 X    16  15  13  11  13  16  20  16  20  30  49  46  29  26  29  34  30  32 ***  33  25  22  16  20    49   11   0   25
 16      11  10  11  11  10   9   9  19  34  18 ***  53  48  59 ***  34  32 ***  25  25 ***  24  20  19    59    9   0   25
 17      18  19  15 ***  19  25  18  28 *** *** ***  20  21  20  22  16  14  14  13  14  12  12  12  12    28   12   0   17
 18      11  11  10  10  11  10  12   9  14  12  10  11  10  10  13  12  12  12  13  19  16  16  14  14    19    9   0   12
 19      13  16  16  16  16  16  18  18  18  21  24  17  12  14  22  35  20  19  21  16  24  28  21  18    35   12   0   19
 20      18  29  18  18  19  21  20  18  17  16  18  17  21  21  25  14  18 *** ***  ***  12  17  15  14    29   14   0   19
 21      11  11  10   9  19 *** *** *** ***  22  24  19 *** ***  18  18  18  18  18  21  18  16  17  17    24    9   0   17
 22      16  14  10  10  10   9  15  20  21 *** ***  27  23  23  24  29  24 ***  19  20  24  19  17  13    29    9   0   19
 23      14  13  13  12  11  13  14  14  19 *** *** *** *** ***  *** *** *** ***  17 *** ***  26  20  21    26   11   0  ***
 24     *** *** ***  27 ***  23  19  13  18  33  34  22  18  23  21  22  19  19  15  24  30  25  19  17    34   13   0   22
 25      15  11  11  13  11  11  15  18  24  34  48  29  17  13  10  13  14 *** *** ***  42  30  24  22    48   10   0   21
 26      18  18  21  18  16  14  16  17  17  45  30  17  26 *** ***  24  16  18 *** ***  32  21  23  16    45   14   0   23
 27      16  14  13  14  12  12  13  31  27  35  25  30  36  46 ***  29  18  24  19 ***  37  23  20  19    46   12   0   24
 28      19  19  24  21  17  17  15  21  30  27  36  34  25  19  20  20  20  18  20  22  24  25  23  18    36   15   0   22
 29      21  20  19  18  15  14  26 *** *** *** *** ***  15  12 ***  23  25  30 *** ***  25  23  20  18    30   12   0   20
 [illegible] X
         17  16  16  13  14  13  14  15  16 *** ***  16  16  18  20  20  21  19  17  20  20  17  14  13    21   13   0   16
MONTHLY
VALUES   14  14  13  15  14  13  14  17  23  25  27  26  23  25  23  21  19  19  18  20  21  19  17  15    27   13   0
```

TABLE B1-6

```
*****************************************************************************************************
15:15  01-MAY-80              AQSS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************
                              FOR THE MONTH OF    APRIL    1980
STATION F0      LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                    H  O  U  R
DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY  #ZERO
                                                                                                          MAX  MIN  AVE'S

  1     15  14  15  14  13  13  14  21  29  39  16  11   7   6  10   9  10  12  18  29  24  27  30  26    39    7   0
  2     20  27  27  27  29  26  23  26 ***  36  39  13  10   8  10   9  12  15  22  30  28  29  30  28    39    8   0
  3     29  30  23  13  11  16  22  22  29  33  25  25 ***  14  33  37  24  26  48  43  36  36  29  28    48   11   0
  4     25  25  24  26  22  23  14  22  20  20  15  16  13  14  17  25  15  21  30  20  16  22  18  25    30   13   0
  5     34  21  12  13  10  21  23  11  10   6   8  16  20  24  17  16  16  19  23  19  17  29  32  32    34    6   0
  6     29  10  17  13  11   9  10  17  14  10  11   7   9  10  12   9   7   8  26  26  24  23  25  19    30    7   0
  7     16  21  12  10  11  12  13  17  21  18  22  21  20  20  17  20  15  21  20  17  16  21  18  16    22   10   0
  8     23  24  22  16  15  24  19  18  17  20  20  22  14  15  18  13  13  21  27  20  18  19  15  16    26   13   0
  9     13  16  19  19  17  24  23  31 ***  37  23  18  19  20  16  17  14  34  39  38  35  41  36  30    41   12   0
 10     25  11  17  18  19  19  19  23  30  31  29  24  21  14  20  20  14  14  17  20  26  26  20  20    33   12   0
 11     18  22  26  21  18  17  16  22  21  34  25  13  10  11  18  18  18  26  37  33  37  35  34  27    37   10   0
 12     27  24  23  21  24  22  26  34  30  24  11  13  14  12  18  30  28  28  29  30  30  30  40  43    43   11   0
 13     36  35  35  32  35  36  35  42  43  46  30  25  21  15  17  21  20  27  32  31  31  24  27  26    46   15   0
 14     30  29  22  25  25  21  23  27  30  36  27  25 *** *** ***  18  22  23  22  34  29  32  27  28    36   18   0
 15 *   12  14  16   9  11  10  15  17  18  13  10  10   9  12  14  16  13  14  29  29  29  32  24  18    32    9   0
 16     25  23  22  19  20  17  15  25  44  55 ***  35  15  32  48  44  32  23  28  31  29  25  25  29    55   15   0
 17     30  24  25 ***  16  19  18  37 *** ***  29  27  30  28  41  40  32  26  25  27  32  33  31  26    41   16   0
 18     22  21  19  21  21  21  21  21  38  26  24  16  16  19  27  34  35  31  30  33  30  22  23  20    38   16   0
 19     23  20  23  20  18  19  16  14  23  17  11  20  30  27  36  37  36  34  25  16  22  26  32  31    37   11   0
 20     24  21  24  23  19  17  17  18  18  10  10   8   7   8   7   8  13  11 *** *** *** *** *** ***    24    7   0
 21    *** *** *** ***  16 *** *** *** *** *** *** ***   6 ***   7   9  12  12  20  33  32  28  26  20    33    6   0
 22     29  20  13  14  15  15  21  34  40 *** ***  30  23  15  14  18  20  23  34  35  30  34  44  30    44   13   0
 23     20  16  21  16  22  13  12  22  22  24  22  16 ***  11  10  10  18  16  15  20  43  38  33  30    43   10   0
 24     29  26  26  24   7   9  16  19  30  39  30  25  12  12   5   5   5  16  20  38  54  41  26  27    54    5   0
 25     21  18  19  13  13  18  18  24  26  41  34  32  28 ***  40  21  17  16  17  12  10  36  32  27    41   10   0
 26     33  20  26  27  26  21  19  27  24  32  21  14  13   9  13  13  17  18  16  30  33  27  26  20    36    9   0
 27     22  22  22  22  20  17  22  33  31  34  41  28  26  37  35  33  34  24  25  40  46  38  25  33    48   17   0
 28     23  25  25  16  23  19  32  33  38  30  33  19  20  22  27  27  13  29  30  10  23  17   6   5    38    5   0
 29      2   1   5   1   1  19  15 *** *** *** *** ***   6   7 ***   6  16   5   3  17  29  21  18  16    29    3   0
 30 *   31  24  24  26  19  17  28  26  22 *** ***  16  22  20  12  13  14  19  25  20  25  25  25  24    31   12   0
MONTHLY
VALUES  24  23  20  19  18  18  20  25  27  29  23  19  16  16  20  20  18  20  25  29  29  29  27  25    29   16   0
```

Note: 15 and 30 April transposed.

TABLE B1-6

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*****************************************
15:16  01-MAY-80           AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                  FOR THE MONTH OF    APRIL    1980
STATION T10    3288  HASTINGS  STREET - PORT  COQUITLAM

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                  H O U R                                                                    DAY  DAY #ZERO  DAY
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S  AVE
  1    16  14  11  13  19  11  13  16  17  31  29  29  26  24  22  34  36  48  49  20  15  11  19  24     49   11    0    22
  2    10   4  30  21   4  19   5  27 ***  13  16   7   6   8   9  11   9  17  23  23  15  12  15  28     30    4    0    14
  3    24  24  19  12   9  19  21  20 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     24    9    0   ***
  4   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
  5   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
  6   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
  7   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
  8   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
  9   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 10   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 30 x   0   9   0   4   0   1   0  30  35  42  44  47  36  36  42  41  44  45  48  39  27  21  13  11     48    0    4    26
 16   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
 17   *** *** *** *** *** *** *** *** *** *** *** ***  18  23  36  25  21  12   8   5  10  10   1   6     36    1    0   ***
 18    10  12   5  20  19  16  11  13  12   1   2   2   5  10   7  11  13  15  19  12  20  11   7  11     20    1    0    10
 19     8  14   8  10   8   9  12   7  12  12  14  25  25  23  25  24  28  26  25  25  23  20  20  18     28    7    0    17
 20    19  19  15  16  10  12  10   7   7   5   2  11  21  24  24  24  27  30  31  28 *** *** *** ***     31    2    0    16
 21   *** *** *** ***  10 *** *** *** *** *** *** ***  19 ***  24  32  33  31  34  30  16  19   9   5     34    5    0   ***
 22     4   2   2   0   0   0   0  13  19 *** ***  16  14  15  15  32  36  37  32  22  20  10   9   5     37    0    4    14
 23     4   1   4   1   2   2   1   0 ***  22  19  21 ***  28  33  40  46  49  53  55  36  25  15  12     55    0    1    21
 24     5  18   5   0   1   1   7  12   8  14  22   6   3  10  15  27  35  32  41  30  12   7   6   0     41    0    2    13
 25     3   5  12  10   9  10  10   4  15  20  19  16   8   6  13  36  52  50  49  49  47  32  19   8     52    3    0    21
 26    25  30  23  15  15  10  17  18  20  23  27  34  41  62  52  45  39  43  52  51  34  22  14  20     62   10    0    31
 27    10  19  12   9  10   5  10  33  34  28  26  24  40 *** *** *** *** ***  49  57  28  15  12   5     57    5    0    25
 28    10  16   8   9   9  10  15  23  26  27  32  20  15  15  15  15  13  28  25  18  19  24  26  19     32    8    0    18
 29    18   5   1   0   8  29  32 *** *** *** *** ***  21  18 ***  23  31  30  38  40  24   9   1   0     40    0    2    19
 15 x *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***    0   ***
MONTHLY
VALUES 11  13  11   9   8  10  11  16  19  20  21  20  20  22  24  28  31  33  36  31  23  17  12  11     36    8   13
```

TABLE B1-7

06-OCT-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF SEPTEMBER 1980

STATION T1 ROBSON SQUARE - ROBSON AND HORNBY - VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

												HOUR																
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVG'S	MEAN
1	24	25	23	22	14	16	20	21	21	24	23	23	22	***	1	***	7	18	16	19	17	19	18	18	25	1	22	18
2	17	13	16	8	8	13	19	19	21	20	21	23	24	25	27	27	29	30	30	28	23	14	13	10	30	8	24	19
3	14	14	13	13	16	17	15	17	22	41	39	30	28	31	32	37	36	35	36	34	29	22	19	17	41	13	24	25
4	17	16	18	17	16	16	16	***	33	39	34	36	43	41	43	46	53	67	69	60	44	35	32	28	69	16	23	35
5	27	28	28	31	29	28	21	21	35	42	50	49	51	54	54	54	51	46	51	56	52	50	45	49	56	21	24	41
6	51	47	40	43	36	33	33	32	38	38	38	48	37	40	38	28	27	35	38	35	26	29	20	27	51	20	24	35
7	30	26	23	20	18	17	16	20	19	15	20	19	20	22	22	24	26	25	24	23	13	7	6	4	30	6	24	19
8	11	12	5	12	15	***	***	***	***	14	5	5	3	8	6	2	***	18	24	19	10	7	15	14	27	4	19	12
9	18	20	20	17	15	***	***	***	6	21	25	17	14	18	12	5	8	25	28	16	25	29	14	25	29	0	21	17
10	23	30	33	23	10	10	***	***	***	45	33	30	32	40	33	28	27	28	25	24	29	29	31	38	45	10	21	24
11	35	25	26	22	21	20	16	***	24	25	26	28	30	33	39	39	39	40	36	35	32	33	35	32	40	16	23	30
12	32	31	31	26	25	23	17	***	***	***	***	***	***	***	31	31	33	33	31	30	28	24	27	28	33	17	17	28*
13	26	20	22	19	16	9	6	6	11	12	15	17	19	26	32	29	31	30	33	20	18	14	10	6	33	6	24	18
14	13	8	2	4	4	6	6	16	23	25	24	21	20	19	21	23	26	23	12	14	10	13	14	17	26	2	24	15
15	20	21	21	19	15	12	4	10	39	33	26	26	31	31	36	36	41	44	48	39	27	17	25	18	48	4	24	26
16	16	22	23	22	20	13	7	***	***	***	***	41	41	49	40	49	51	51	51	49	44	37	37	32	51	7	20	35
17	33	30	27	25	28	25	20	22	28	36	32	29	34	40	41	41	45	39	41	40	39	38	34	35	45	20	24	33
18	36	31	32	33	35	33	26	28	30	32	29	36	36	36	36	32	39	39	39	36	29	26	25	25	39	25	24	32
19	24	22	19	17	16	16	21	21	24	24	22	19	22	20	23	21	30	30	30	27	27	25	25	21	30	16	24	22
20	22	20	17	13	13	17	19	22	24	26	21	16	16	18	20	21	24	25	27	27	17	11	7	7	27	7	24	18
21	6	8	6	10	11	10	7	11	14	20	19	17	18	18	18	18	22	23	23	28	17	18	21	22	28	6	24	16
22	21	20	20	19	16	16	11	8	14	21	21	25	25	23	22	23	19	21	20	22	21	22	18	21	25	8	24	19
23	20	18	16	16	15	9	8	9	10	12	19	31	25	24	23	24	23	24	23	23	20	13	4	8	41	3	24	17
24	8	6	4	7	11	4	2	5	19	***	37	25	26	29	22	25	24	23	24	21	11	***	***	***	47	2	20	16
25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	0	04
26	***	***	***	***	***	***	***	***	***	59	97	92	39	25	26	37	36	35	33	25	30	35	14	36	97	25	15	42*
27	27	23	20	24	22	20	21	22	21	22	24	23	25	26	24	22	23	27	26	18	14	16	10	20	27	14	24	22
28	19	15	16	16	17	14	13	11	12	13	12	12	12	11	13	12	11	12	11	12	9	12	11	15	19	9	24	13
29	16	16	16	15	15	15	15	9	15	18	14	17	14	16	16	13	15	18	18	18	16	15	16	15	18	9	24	15
30	14	12	14	14	16	12	8	7	9	15	20	23	22	23	27	25	26	23	22	10	10	3	5	6	27	1	24	15
MONTHLY [illegible]	22	21	20	19	16	16	15	16	21	27	20	27	26	28	27	28	29	31	31	26	24	22	21	21	97	0	657	23

TABLE B1-7

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..............................................................................................................
15:30   08-OCT-80            AQAS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
**************************************************************************************************************

                                   FOR THE MONTH OF  SEPTEMBER  1980

STATION T2      2294  WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
[illegible] DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE
                                                    H O U R                                                           DAY   DAY  #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX   MIN  AVG'S  MEAN

  1    16  13  12   9   9  10  11   9   7   8  11  15  24  25  26  25  23  21  20  19  17  16  15  13     26     7    24    15
  2     7   0   0   0   0   0   8  10   8   7   3   4   4   5   9  11  15  16  19  26  27  25  19  21     28     0    24    10
  3    16  19  17  16  15  15  18  18  18  21  15  19  28  18  17  29  29  30  28  31  28  26  23  14     41    15    24    21
  4    17  17  15  11  11  14  18  28  45 ***  25  39  27  29  29  33  35  37  42  54  46  34  34  26     54    11    23    28
  5    24  26  20  25  21  20  21  25  35  34  30  21  25  30  33  32  39  52  51  54  57  47  42  52     57    20    24    34
  6    46  36  31  34  32  22  22  21  28  24  24  29  34  43  42  45  36  35  36  29  22  19  14  13     46    13    24    29
  7     6   7   2   0   0   0   0   1   3   4   5   4   5   7   5  13  13   9  12  17  24  16  13  12     24     0    24     7
  8    13  11  10  12   9   7  11  16  30  27  11  14  14  11  11  15  12  13  19  25  20  14  18  27     30     7    24    15
  9    25  23  21  21  20  18  24  30  41  47  29  24  25  19  20  24  20  29  28  28  27  24  19  22     47    18    24    25
 10    30  30  26  22  25  23  24  45  34  32  19  16  16  18  21  19  21  17  22  28  23  26  28  24     45    16    24    24
 11    27  23  19  20  22  19  20 ***  23  17  15  17  17  16  28  35  29  39  41  36  37  37  35  34     41    15    23    26
 12    34  32  29  30  29  24  25  26  29  25  21  17  18  17  25  23  27  27  26  18  20  23  27  21     34    17    24    24
 13    18  17  12   1  14  10   9   5   6   7  10  12  13  19  28  28  31  36  33  29  23  21  29  28     36     1    24    18
 14    20  20  17  16  16  17  16  19  13  13  13  12  12  13  15  16  27  38  37  29  29  27  30  32     38    12    24    20
 15    29  29  29  25  23  21  18  32  38  37  22  16  21  22  30  31  43  41  53  54  43  38  37  34     54    18    24    32
 16    35  37  34  34  32  30  32  45  59  31  31  27  31  26  25  30  38  42  46  45  39  35  30  30     59    25    24    35
 17    29  26  21  21  19  19  21  24  30  33  27  27  20  22  25  30  41  33  36  40  41  40  34  35     46    19    24    29
 18    34  38  36  33  32  29  25  28  28  34  32  36  36  33  32  39  38  33  34  35 .34  30  29  18     39    18    24    32
 19    12  10   5   3   5   7  12  16  13 *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     16     3     9     9*
 20   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***   ***     0     0*
 21   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***   ***     0     0*
 22   *** *** *** *** *** *** *** *** *** *** ***  30  29  29  30  27  30  26  27  25  24  24  21  21     30    21    13    26*
 23    15  10  10   7   7  12  16  17  24   1  22  29  16  16  12  14  14  16  22  24  19  15  22  16     29     1    24    15
 24    18  16  15  20  16  17  16  20  33 ***  44  18  15  15  16  19  19  18  22  25  25  18  14  12     44    12    23    19
 25    11  11   9   8  10   9   8  14  19  10  16  15 ***  13  16  21  24  23  24  21  20  14  11   9     24     8    23    14
 26    11   9   9  11  11  10   9  24  11  47  82  55  31  22  22  28  37  46  41  40  41  47  46  43     82     9    24    31
 27    47  40  30  14  10  14  11  14  21  26  27  26  18  19  21  24  30  31  36  34  35  34  33  31     47    10    24    26
 28    27  30  23  20  15  15  12  17  17  25  23  24  27  26  27  27  26  25  25  23  22  22  20  16     30    12    24    22
 29     9   6   2   0   5  10  16  22  18  18  22  21  23  23  25  26  21  22  22  21  20  23  22  19     26     0    24    17
 30    14  19  20  14  14  16  19  22  28  29  35  24  23  33  22  24  28  36  32  32  30  24  20  20     36    14    24    24
MONTHLY
VALUES 22  21  18  16  16  15  16  21  25  23  24  22  21  21  23  25  28  29  31  31  29  27  25  24     82     0   642    23
```

TABLE B1-7

```
***************************************************************************************************************
15:37  08-OCT-80           AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
***************************************************************************************************************
                                       FOR THE MONTH OF  SEPTEMBER  1980
STATION 13     MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
SHIFT TO DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                 H O U R                                                   DAY  DAY #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVG'S  MEAN
   1   16  15  13  11  11  11  11  10   8   8   8   7   7   9  11  14  15  11  14  14  10  13  14  11     16    7   24    11
   2   13  11  10  10   9  12  19  17  15  13  11  12  12  12  15  11  10  11  20  21  23  22  20  19     23    9   24    14
   3   23  23  23  22  22  22  24  19  17  16  13  12  12  14  14  12  17  22  24  24  26  24  21  19     26   12   24    19
   4   19  22  20  22  20  17  20  18  22  22  16  21  17 ***  17  16  24  33  47  44  43  42  37  30     47   16   23    25
   5   25  25  23  21  21  22  30  28  24  22  20  16  16  16  16  17  17  29  36  32  35  31  30  33     36   16   24    24
   6   37  32  26  28  24  22  20  20  16  16  16  19  20  28  23  25  20  25  24  22  19  15  13  13     37   13   24    21
   7   11  16   8   8   5   7  10   9   7   8   6  10   9  10   9   9   9  16  16  19  10  16  17  19     19    5   24    11
   8   17  17  14  13  14  13  21  35  39  29  14  14  13  18  16  16  15  17  17  16  13  17  29  23     39   13   24    16
   9   29  23  26  26  20  23  39  48  64  24  20  19  19  17  22  19  23  25  25  23  20  26  45  47     64   17   24    26
  10   13  32  30  27  27  28  42  74  70  50  33  27  24  30  30  22  16  16  22  18  21  17  16  17     74   16   24    30
  11   20  24  21  20  19  21  24  18  17  14  10  10  15  14  14  12  16  22  22  22  28  30  29  30     30   10   24    19
  12   30  27  23  23  22  18  22  19  17  16  16  14 ***  16  18  21  20  24  25  25  21  21  20  24     30   14   23    20
  13   24  19  10  10  10  10  10  10   7   7   7  10  10  17  17  17  19  19  17  16   5  16  15  21     24    5   24    13
  14   22  19  15  15  13  13  15  16  13  12  12  10  13  14  12  16  24  38  27  20  16  20  18  21     38   10   24    17
  15   24  22  24  24  23  21  18  37  40  27  16  21  21  19  21  19  20  36  44  36  28  33  30  28     44   16   24    26
  16   31  30  30  31  28  24  26  32  32  29  18  20  17  16  18  16  23  32  31  31  23  17  23  26     32   16   24    25
  17   29  27  17  16  16  16  21  16  22  20  17  15  11  14  16  16  14  19  24  29  24  21  20  20     29   11   24    18
  18   22  29  22  26  27  28  20  23  30  27  30  29  25  22  19  17  15  19  22  21  20  17  17  10     30   10   24    22
  19    6   6   4   2   2   4   3   7   7   6 ***  10   9   8  14  10  13  16  18  17  18  19  15  13     19    2   23    16
  20   17  16   3   1   0   5   7  10   9   6  11   7   6   7   7   7   7  13  17  14  11   9  10  11     17    0   24     8
  21   11   9  10   9  10   9   7  11  12  11   9  10   6   9   9   9  11  11  11  11  10  15  21  10     21    7   24    11
  22   17  16  14  15  15  14  15  14  19  20  16  16  16  14  13  13  14  14  17  17  17  15   9   9     20    9   24    15
  23   14  14  11   8   9   7   6   5  13  19  14  11   6   5   9   8  11  13  17   6  18  18  16  20     20    5   24    11
  24   18  21  17  16  10  18  17  15  27  36 *** ***  18  17  10  10  13  17  17   7   6   8   8   9     36    6   22    15
  25   15  11  13  10  10   5  12  28  35  17  15  13  12  17  16  15  15  14   6   9   4  10   8   9     35    4   24    13
  26    9   7   7   7   7   7  15  30  48  62  78  55  43  38  10  40  48  43  27  49  29  23  26  25     78    7   24    31
  27   22  27  24  20  12  14  14  12  12  13  12   9   9   8  11  12  13  15  16  19  20  21  21  17     27    8   24    15
  28   20  17  13  12  11  10   8   9   8   9   9  16  10  10  10  12  13  13  13  14  15  15  14  12     20    8   24    11
  29   11  12   6   8   9  10  12  13  11  11  12  11  13  13  11  12  12  12  12   9  10  13  11  12     13    8   24    11
  30   13  16  10  10  11   7   7  14  13  16  10   8   6   9   9  11  15  17  18  16  10  15  11  11     18    7   24    11
MONTHLY
AVERAGE 20  19  16  16  15  15  17  21  22  19  17  15  14  15  15  15  17  20  22  21  19  19  20  19     78    0  715    17
```

TABLE B1-7

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*******************************************************************************************************************
15:37  08-OCT-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************************
                                    FOR THE MONTH OF  SEPTEMBER  1980
STATION T4      KENSINGTON  PARK - BURNABY
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                     H O U R                                                    DAY  DAY #GOOD
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN

   1    12   9  12   9   7  11   9   9  10  12  14  19  19  17  13  14  12  10  11  13  13  16  18  18     19    7  24   12
   2    17  11   7   6   8  13  22  21  18  11  11  11  10  10   9  12  10  13  19  26  25  20  23  15     26    6  24   14
   3    16  14  13  13  14   8  14  14  14  11  13  15  14 *** ***  21  24  29  30  27  24  20  23  13     30    8  22   17
   4    11  12  10  11  10  14  15  22  28  26  16  20  17  17  16  16  26  38  40  34  23  18  28  16     40   10  24   20
   5    12  14  12  19  18  15  16  19  18  36  25  22  18  16  17  17  22  31  57  63  55  55  46  44     63   12  24   27
   6    40  25  24  27  25  20  18  15  24  24  22  28  31  31  26  28  29  27  25  23  18  15  14  13     40   13  24   23
   7    13  19  17  12  12  10  12  14  11  10  15  16  18  13  19  20  17  25  28  27  23  23  17  14     28   10  24   16
   8    15  13  13  11  10  10  16  29  32  47  58  63  38  24  18  21  33  33  30  24  15  13  17  21     63   10  24   25
   9    25  15  16  14  15  16  14  29  67  71  76 117  88  45  32  47  60  63  80  66  59  68  64  45    117   14  24   49
  10    21  23  17  15  20  25  25  42  70  68  58 101  71  40  46  55  43  40  28  24  26  22  26  28    101   15  24   38
  11    20  21  19  15  10  14  15 ***  14  16  14  15  16  17  19  24  24  25  29  23  27  21  14  15     29   10  23   18
  12    15  15  16  21  25  21  22 ***  32  39  39  39  42  41  51  38  33  33  32  31  30  28  27  27     51   15  23   30
  13    28  25  19  18  16  14  13  19  21  20  20  24  29  32  39  25  25  27  30  28  33  28  24  24     39   13  24   24
  14    21  22  16  17  15  13  13  13  24  28  40  38  26  18  15  12  21  45  52  43  29  30  22  22     52   12  24   24
  15    19  23  19  18  15  18  24  29  30  48  40  36  28  24  34  34  42  39  45  51  42  37  34  29     51   15  24   31
  16    28  25  19  18  19  18  20  31  43  32  23  22  19  16  20  23  29  28  41  42  39  34  25  23     43   16  24   26
  17    33  30  26  27  28  23  22  25  30  22  24  21  19  19  21  21  29  30  38  36  35  30  30  27     38   19  24   27
  18    32  27  27  25  25  23  23 ***  35  38  43  40  36  20  24  25  29  29  32  31  29  24  22  18     43   18  23   28
  19    16  16  15  13  11  12  15  17  14  14  13  13  13  15  19  20  19  25  28  27  24  23  22  22     28   11  24   17
  20    18  16  12  10  10  12  14  14  13  14  16  11  12  12  13  13  15  24  29  26  20  16  14  13     29   10  24   15
  21    11   9  12  11  10   8   8   9  13  16  16  22  17  13  13  16  16  20  23  25  24  16  15  12     25    8  24   14
  22    12  10  10   9  11  12  17  18  17  14  12  14  11  12  19  18  22  19  24  24  25  22  21  21     25    9  24   16
  23    20  20  18  20  18  13  10  10  12  16  22  29  29  27  25  23  22  25  26  24  22  21  17  15     29   10  24   20
  24    16  17  15  14  13  12  11  17  12 ***  24  40  19  20  26  29  32  33  33  31  30  28  17  14     40   11  23   21
  25    18  15  12  11  11  13  14  18  37  82  80  73  75  55  31  38  37  45  36  29  35  38  31  22     82   11  24   35
  26    15  14  10  11  15  11   9  22  34  43  44  96  78  99 102 130 112 112  97  78  72  61  57  48    130    9  24   56
  27    37  28  12  12  13  13  17  14  14  14  17  24  23  27  28  28  29  32  33  32  30  23  19  17     37   12  24   22
  28    20  18  13  13   9  12  12  14  14  14  15  16  19  17  19  22  22  20  19  17  18  18  13  13     22    9  24   16
  29    10   7   6   6   7  10  16  20  17  17  15  23  24  24  25  25  25  25  22  23  15  22  22  22     25    6  24   18
  30    22  16  12  12  14  15  16  19  24  23  25  17  12  11  14  13  20  30  28  24  24  18  20  17     30   11  24   18
MONTHLY
VALUES  20  18  15  15  14  14  16  19  25  28  28  34  29  25  26  28  29  33  35  32  29  27  25  22    130    6 714   24
```

TABLE B1-7

```
****************************************************************************************************************************
15:38  08-OCT-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************************************
                              FOR THE MONTH OF  SEPTEMBER  1980
STATION T5      CONFEDERATION  PARK - BURNABY
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                  H O U R                                                    DAY  DAY #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S  MEAN
  1   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  2   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  3   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  4   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  5   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  6   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  7   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  8   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  9   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 10   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 15   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 16   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 17   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 18   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 19   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 20   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 21   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 22   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 23   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 24   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 25   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
 26   *** *** *** *** *** *** *** *** *** *** *** *** ***  93  76  84  97  87  95  78  79  75  64  56    97   56   11    80*
 27    47  34  17  15  16  19  23  22  26  23  27  31  30  33  41  30  29  46  47  40  36  28  18  15    47   15   24    29
 28    17  21  19  18  16  10   3   5   5  11  13 *** *** *** ***  12  12  11  14  14  14  17  19  15    21    3   20    13
 29    17  12  12  10  12  17  29  32  31  29  31  37  36  36  39  39  39  37  37  31  28  31  32  33    39   10   24    28
 30    33  27  23  20  19  22  28  32  36  25  33  21  16  17  21  24  39  45  36  23  24  13  15  18    45   13   24    25
MONTHLY
VALUES 20  23  18  16  16  17  21  23  24  22  26  30  27  45  44  39  43  45  46  37  36  33  30  27    97    3  103    30
```

TABLE B1-7

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*******************************************************************************************************
 15:38   08-OCT-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************
                                 FOR THE MONTH OF  SEPTEMBER  1980
STATION T6      75  RIVERSIDE  DRIVE - NORTH  VANCOUVER
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                  H O U R                                                    DAY  DAY  #GOOD
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN  AVE'S  MEAN
   1     12   9  11  12  12  13  12  10   8   9  10  10  11  10   9   8  12  11  12  12  12  13  17  22    22    8   24     11
   2     23  22  21  21  13  13  17  25  31  26  19  17  16  19  19  22  21  27  40  28  20  14  16  13    40   13   24     20
   3     10   8  10  10   9  10  21  27  23  27  30  27  27  29  27  23  22  35  36  27  27  21  17  17    36    8   24     21
   4     11   6   0   1   5  10  19  20  25  50  46  24  30  47  49  38  39  29  42  31  28  25  26  20    50    0   24     25
   5     18  14  17  19  17  14  17  24  21  28  52  38  41  41  29  22  33  79  83  53  38  40  31  27    83   14   24     33
   6     31  19  28  29  29  24  20  17   9  14  21  22  40  31  17  14  15  18  21  20  19  18  17  20    40    9   24     21
   7     19  23  23  22  23  18  15  13  11  11  17  13  15  17  18  27  33  43  38  31  15  14  17  18    43   11   24     20
   8     13   3   2   4   6  11  15 ***  53  59  93  35  29  26  30  26  31  37  34  29  26  26  23  23    93    2   23     27
   9     22  13  13  14  11  14  23  32  60 128 151  74  55  52  45  40  45  44  45  41  43  39  27  27   151   11   24     44
  10     27  15  11   9   9  10  15  44 114 107 124  57  29  36  40  30  20  29  26  25  25  22  22  18   124    9   24     36
  11     16  17  12  13   9  12  15 ***  14  17  17  14  19  21  19  23  16  19  18  21  19  17  15  15    23    9   23     16
  12     13  10  11   5   8  12  14  18  22 ***  64  59  59  66  75  63  47  47  44  40  41  39  39  37    75    5   23     36
  13     32  27  20  14   8   7   9  24  36  36  35  50  73  73  58  45  37  43  41  39  34  38  27  29    73    7   24     34
  14     28  27  25  17  10  14  18  27  61  61  65  38  35  41  49  45  63  60  46  39  41  31  26  25    65   10   24     37
  15     21  14  14   8   3  10  20  38  67  72  71  30  24  42  35  37  35 *** *** ***  27  33  29  20    72    3   21     30
  16     20  22  16  15   6  12  19  26  34  33  31  29  24  24  46  67  81  87  79  52  34  36  30  20    87    6   24     35
  17     13   7   5   9   0   1  17  28  47  36  33  33  36  29  33  29  26  17  33  27 *** ***  15  10    47    0   22     22
  18     10  13  20  15  10  12  14  23  32 ***  57  65  61  43  47  35  33  30  32  30  28  23  19  17    65   10   23     29
  19     14  13  16  13  13  11  29  34  32  32  25  22  24  26  29  26  24  31  33  32  32  28  24  21    34   11   24     24
  20     14  14   8  12  22  24  21  21  17  22  27  13  16  13  16  17  21  31  29  19  10   8   9   9    31    8   24     17
  21      0   6   6   0   0   0   1   1   6  17  17  19  11  10  12  14  17  23  19  19  14  12   9   8    23    0   24     10
  22      8   8   9   6   9   6  13  16  13  12  12  10  14  12  15  19  22  18  22  20  19  11  11  11    22    6   24     13
  23      6  11   7   6   9   7   3   2  11  13  21  28  32  21  16  18  22  23  23  16  13  14  10   9    32    2   24     14
  24      7   6   9   7   6   6   7   7   8  22  28  18  21  16  27  26  23  36  42  26  21  22  20  15    42    6   24     17
  25     10  10   6  11  11  11  17  25  27  85 102  72  36  37  42  52  48  40  35  35  36  28  32  23   102    8   24     34
  26     17  14  11  19  12  14  14  40  74 139  96  89 128  70  52  62  71  70  80  63  55  58  48  36   139   11   24     56
  27     37  24  21  16  17  18  23  21  18  20  22  23  22  27  30  27  19  39  45  39  30  18   9   8    45    8   24     23
  28     14  18  13   8  13  13  14  12  13  16  17  11  11  16  13  18  18  18  20  19  14  15  13  16    20    8   24     14
  29     20  16  14  16  11  12  27  40  38  42  45  37  46  46  37  28  34  28  25  30  13  29  26  25    46   11   24     28
  30     26  22  18  18  10  16  26  29  29  26  40  39  30  25  33  29  38  41  38  25  16  19  18  12    41   10   24     26
MONTHLY
VALUES   17  14  13  12  11  12  17  23  32  41  46  34  34  32  32  31  32  36  37  31  26  24  21  19   151    0  711     26
```

TABLE B1-7

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***********************************************************************************************************
15:39  08-OCT-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
***********************************************************************************************************
                              FOR THE MONTH OF  SEPTEMBER  1980
STATION 17     ANMORE  ELEMENTARY  SCHOOL - ANMORE

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                    H O U R                                                  DAY   DAY  #GOOD
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX   MIN  AVE'S MEAN

   1     13  14  10  13  14  13  15  13  12  13  14  14  12  13  11  12  12  14  13  13  12  13  24 ***      24    10   23    13
   2     33  37  25  18  16  17  18  36  38  24  23  24  23  17  25  21  24 *** *** ***  19  19  17  16      38    16   21    23
   3     14  13  12  14  13  13  16  17 *** ***  17  20  19  21  22  23  19  17  13  13  12  11  13  11      23    11   22    15
   4      9   9   9  10   9  13  11  18  20  26  15  16  20  24  30  31 *** *** ***  24  18  14  12  12      31     9   21    16
   5     13  13  11   8   9   9  10  13  33  27  27 ***  34  28  21  20  25  33  26  21  17  12  16  20      34     8   23    19
   6     19  13  20 ***  17  18  14  12  12  23  27  32  26  14  13 ***  16  17  18  20  22  18  17  19      32    12   22    18
   7     21  31  32 ***  25  17  13  12  11  12  13  18  25  36  35  33  27 *** ***  16  19  15  14  13      36    11   21    20
   8     12   9  12  11  11   9   9  12  15  14  49  76 110  65  18  17  24  17  21  20  19  18  15  13     110     9   24    24
   9     11  13  14  13  12  14  15  21  41  30  94  73 109 157 115  45  35  68  66  57 ***  22  23  22     157    11   23    46
  10     18  17  16  16  16  27  27  29  25  36  84  97  94  91  71  60  59  43  33  36  32  26  31  28      97    16   24    42
  11     21  19  20  15  15  11  10 ***  11  15  18  20  23  19  22  22  19  19  15  14  12  13  12  12      23    10   23    16
  12     13  10  11  13  11  10  11  19  26  33  33  42  56  61  56  46  45  39  33  31  25  28  31  28      61    10   24    29
  13     26  25  23  18  16  11   9   6  17  30  35  51  62  52  57  61  54  36  35  22  17  13  13  12      62     6   24    29
  14      8   7   7   5   8  13   7   7   9  18  31  58  51  36  20  24  26  18  31  21  19  14  15  11      58     5   24    19
  15     11  12  12  14  12  14  14  14  45  66 ***  59  30 ***  24  20  17  17  20  24  17  14  10  13      66    10   22    21
  16     12  12  11  11  11  13  15  16  16 ***  22  30  42  33  32  32  43  44  38  33  24  22  16  15      44    11   23    23
  17     12  16  21  16  14  21  20  22  39  29  20  20  21  22  31  37  32 ***  29  26  20  19  17  13      39    12   23    22
  18     12  12  13  14  12  11  19  19  37  48  57  81  81  69  49  40  31  38  28  22  20  16  16  16      81    11   24    31
  19     15  17  16  13  11  14  18  22  18  19  24  26  23  22  24  24  25  19  21  24  20  17  14  14      26    11   24    19
  20     11  13  12  15  11  15  16  17  20  20  27  25  17  12  12  16  21  21  17  17  16  14  16  15      27    11   24    16
  21     13  12  11  10   9  10   7  11  17  21  24  30  34  30  24  23  28  20  19  17  17  15  15  14      34     7   24    17
  22     11  12  11  12  11  12  12  11  16  11  15  18  18  14  14  25  33  26  31  22  26  24  18  18      33    11   24    17
  23     17  18  14  19  17  18  15  13  17  20  22  27  43  62  69  48 ***  20  16  18  18  14  13  12      69    12   23    23
  24     12  10  10  11   9  12  12  12  21 ***  30 ***  52  27  27  31  30  21  25  22  16  15  16  16      52     9   22    19
  25     13  11  11  11  10  11  11  15  21  47  78 *** *** *** *** *** *** *** *** *** *** *** *** ***      78    10   11    21*
  26    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***   ***    0     0*
  27    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***   ***    0     0*
  28    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***   ***    0     0*
  29    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***   ***    0     0*
  30    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***   ***    0     0*
MONTHLY
VALUES   15  15  15  13  13  14  14  16  22  26  33  39  43  40  34  31  29  27  26  23  19  17  17  16     157     5  563    23
```

TABLE B1-7

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15:39 08-OCT-80          AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

                         FOR THE MONTH OF  SEPTEMBER  1980
STATION T8     LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER BILLION
ROUND TO DECIMAL X.XXX
** - INDICATES DATA UNAVAILABLE
```

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVE'S	MEAN
1	18	16	7	9	6	6	8	8	10	9	12	13	15	17	18	23	20	19	20	19	17	18	17	18	23	6	24	14
2	10	6	0	2	9	9	11	15	3	5	3	7	2	***	1	0	2	8	16	25	21	15	18	10	25	0	23	8
3	6	11	5	4	2	10	21	21	20	19	18	17	16	17	20	25	34	25	31	27	19	14	14	11	34	2	24	16
4	17	7	3	6	10	9	11	17	31	34	35	16	22	16	21	22	33	36	36	32	22	23	17	11	36	3	24	20
5	12	14	12	17	16	15	13	27	50	42	33	31	26	36	40	21	34	34	33	35	35	43	37	34	50	12	24	28
6	30	27	29	32	30	27	28	22	19	26	28	35	38	31	25	17	27	28	27	25	21	18	15	13	38	13	24	26
7	5	9	17	14	10	6	4	11	15	7	3	4	4	2	12	6	13	12	12	15	9	7	6	6	17	2	24	6
8	3	6	4	4	4	3	6	17	25	30	9	4	2	2	2	7	11	11	11	9	11	11	6	11	30	2	24	8
9	11	11	11	10	10	10	11	37	53	57	29	8	6	5	***	8	16	22	23	19	20	15	15	13	57	5	23	18
10	18	21	20	16	14	15	14	34	55	57	34	14	8	8	13	15	15	23	22	17	23	22	27	21	57	8	24	21
11	17	19	16	16	17	17	22	***	20	22	18	13	14	20	23	25	27	35	40	35	35	31	31	32	40	13	23	23
12	30	27	21	17	10	14	14	30	46	33	33	44	20	15	14	18	18	22	21	21	14	18	15	25	46	10	24	23
13	23	23	22	11	6	5	7	8	15	14	9	10	14	14	17	42	51	35	30	15	16	20	18	14	51	5	24	18
14	13	13	12	12	11	9	13	19	34	23	16	11	12	14	20	28	32	31	37	20	13	13	19	17	37	9	24	18
15	16	15	18	16	13	11	11	27	50	36	20	16	16	12	18	19	25	24	35	38	20	16	21	19	50	11	24	21
16	19	19	18	17	17	16	15	23	54	46	28	24	20	19	12	16	22	28	37	37	28	20	17	16	54	12	24	23
17	14	12	12	10	11	7	10	25	33	32	24	24	20	19	21	22	28	34	31	34	30	23	18	22	34	7	24	21
18	22	21	21	21	19	23	23	24	23	24	23	***	34	36	37	37	39	31	34	33	28	26	23	19	39	19	23	27
19	16	16	17	13	13	14	18	23	20	17	15	17	20	21	25	28	29	29	27	22	25	20	29	29	29	13	24	21
20	20	19	11	5	4	9	21	22	23	25	14	6	10	8	5	10	9	8	19	18	15	12	9	10	25	4	24	12
21	16	16	9	2	1	4	5	6	10	25	23	23	8	8	7	8	16	29	25	20	17	18	16	14	29	1	24	13
22	14	11	15	13	12	12	21	22	19	19	25	21	17	19	23	24	32	30	28	29	29	18	27	24	32	11	24	20
23	25	19	15	11	7	6	6	5	10	21	24	26	12	7	5	7	12	7	10	17	18	12	12	10	26	5	24	12
24	9	7	4	4	11	10	10	12	26	***	19	24	24	16	13	17	12	15	22	25	18	13	10	6	26	4	23	14
25	3	7	6	9	9	10	5	20	45	38	21	30	4	4	***	7	15	18	14	12	4	2	3	3	45	2	23	12
26	[illegible]	3	6	9	9	8	8	24	44	47	69	54	11	11	13	21	26	29	26	20	24	31	26	24	69	3	24	23
27	22	19	15	20	20	21	20	28	26	24	28	25	28	32	36	35	29	36	38	35	35	21	23	25	38	15	24	26
28	25	16	19	17	13	10	15	15	13	16	17	15	19	19	24	22	22	22	24	22	20	16	13	17	25	10	24	17
29	20	20	18	19	11	11	18	25	30	30	30	32	29	32	32	29	28	30	29	24	34	34	31	24	34	11	24	25
30	22	20	17	21	15	15	17	19	19	20	25	26	15	16	20	33	24	30	28	19	18	16	14	11	33	11	24	19
MONTHLY VALUES	16	15	13	13	11	11	14	20	28	28	23	20	16	16	18	20	23	25	26	24	22	19	18	17	69	0	714	19

TABLE B1-7

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15:40  08-OCT-80          AQMS MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
********************************************************************************************************
********************************************************************************************************
                                   FOR THE MONTH OF  SEPTEMBER  1980
STATION T9     ROCKY  POINT  PARK - PORT  MOODY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                   H O U R
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY #GOOD
                                                                                                          MAX  MIN AVE'S MEAN
   1    13  16  16  12  11  11  12  11   9  10  11  17  18  14  17  16  17  15  16  21  21  20  18  21    21    9   24    15
   2    21  20  14  12  12  19  22  23  25  18  16  14  13  16  16  15  17  20  29  30  25  21  18  15    30   12   24    18
   3    13  12  10  12  12  13  12 ***  19  14 *** *** ***  15  16  14  21  31  30  23  20  19  17  16    31   10   20    16
   4    15  13  12  11  11  11  11  18  20  12  13  13  12  20  25  21  25  56  48  42  35  29  25  21    56   11   24    21
   5    18  20  17  14  12  12  11  19  33  32  23  22  26  23  24  26  31  68  67  62  55  49  37  30    68   11   24    30
   6    28  25  23  20  25  24  21  18  25  25  20  26  36  35  30  25  28  35  31  28  20  19  16  16    36   16   24    24
   7    16  17  22  21  20  16  10   9   9  10  10   9  17  25  23  21  21  25  34  34  27  22  18  15    34    9   24    18
   8    13  13  10  10  11  12  12 ***  30  38  43  58  70  41  27  20  25  48  43  37  30  28  24  20    70   10   23    29
   9    18  20  16  17  15  17  18  30  46  59  61  61  94  98  59  45  66  83  81  71  61  46  44  40    98   15   24    48
  10    34  37  33  28  26  23  22 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    37   22    7    29*
  11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  15   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0     0*
  16   *** *** *** *** *** *** *** ***  35  30  19  20  24  23  26  31  41  49  50  46  37  31  29  23    50   19   16    32*
  17    21  21  18  17  15  15  15  24  27  20  15  12  12  17  24  23  24  29  37  32  27  21  21  20    37   12   24    21
  18    20  24  27  21  25  22  21  20  27  32  41 *** *** *** *** *** *** *** ***  29  26  27  20  18    41   18   16    24*
  19    13  13  10  11  12  18  19  19  18  18  18  17  21  24  22  23  23  25  24  21  20  21  20  14    25   10   24    18
  20    10  12  13   9   8   9  11  14  10  15  17  22  13  15  12  11  11  26  26  22  20  19  14  13    26    8   24    15
  21    13  11  11   9  10   8   7   6   6  13  18  22  21  19  15  15  17  20  20  21  19  18  18  13    27    6   24    14
  22    14  11  13  10   9  15  17  18  19  12  14  12  12  14  12  15  22  27  22  22  22  22  19  17    27    9   24    16
  23    14  12  12  12  11  13  15  16  16  15  19  19  27  29  35  31  26  31  28  23  19  17  14  13    35   11   24    19
  24    10  11  10  10  11   9  17  12  24 ***  20  27  33  19  20  22  21  33  34  28  23  20  17  13    34    9   23    19
  25    14  14  12  14  14  15  15  17  26  42  56  71  69  63  32  44  39  45  46  38  32  28  26  24    71   12   24    33
  26    19  15  12  11  11  12  18 *** ***  68  58  67  55  81  85  90 100 103  90  75  64  51  41  34   103   11   22    53
  27    27  26  27  23  21  17  19  21  25  31  17  16  17  18  21  18  14  24  29  25  27  23  17  19    31   14   24    21
  28    17  18  16  12  11  13  13  14  14  11  14  16  19  22  19  23  28  26  22  22  20  20  17  18    28   11   24    18
  29    17  15  13  10   7  11  19  16  18  17  18  20  23  23  21  25  27  23  23  20  23  21  20  17    27    7   24    18
  30    17  18  15  15  15  18  19  19  20  19  21  21  15  15  15  19  25  25  25  22  17  16  13  12    25   12   24    18
MONTHLY
VALUES  17  17  16  14  14  15  16  17  23  27  27  29  31  32  29  29  32  41  40  35  31  26  23  20   103    6  569    23
```

TABLE B1-7

15:40 08-OCT-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF SEPTEMBER 1980

STATION T10 3288 HASTINGS STREET - PORT COQUITLAM

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVE'S	MEAN
1	10	8	3	2	3	1	1	1	6	10	4	0	0	***	1	0	6	13	4	13	12	8	8	12	13	0	23	5
2	12	9	7	7	10	13	16	14	16	21	22	23	22	22	20	29	31	34	32	15	7	2	1	2	34	1	24	16
3	***	***	***	***	***	0	3	12	5	3	***	22	23	20	17	16	20	33	14	7	1	1	4	0	33	0	18	11
4	2	0	***	***	***	***	1	7	3	8	15	21	27	37	47	50	48	56	25	14	18	7	10	16	56	0	20	20
5	7	0	3	1	4	0	6	14	18	29	34	32	43	52	***	65	78	84	82	***	***	14	24	19	84	0	21	29
6	16	20	15	16	14	13	14	19	23	28	26	30	35	36	43	27	11	20	20	19	13	11	9	7	43	7	24	20
7	6	9	11	16	11	7	3	4	2	12	14	14	16	24	35	40	37	45	41	33	16	8	7	3	45	2	24	17
8	0	3	5	0	4	5	12	24	54	60	67	81	75	80	49	42	55	55	59	30	25	25	20	18	81	0	24	35
9	14	9	8	9	7	3	17	30	62	59	42	74	75	95	117	97	79	55	57	47	46	45	42	36	117	3	24	46
10	20	20	17	14	10	8	13	43	45	***	48	77	84	98	90	95	66	42	33	27	26	19	15	13	98	8	23	46
11	11	8	7	2	2	0	6	***	7	18	21	22	25	28	37	35	35	33	41	24	17	11	16	16	41	0	23	18
12	11	5	10	15	14	10	7	12	21	25	23	17	27	25	22	20	26	25	23	22	19	17	15	15	27	5	24	17
13	16	17	12	13	8	9	8	9	19	33	39	32	25	27	36	37	45	31	25	16	13	15	11	12	45	8	24	21
14	8	1	6	7	7	2	0	7	19	38	45	40	43	45	42	43	43	38	34	26	20	17	13	9	45	0	24	23
15	8	9	8	9	10	6	18	27	48	45	67	71	62	***	55	54	61	59	61	29	19	14	12	9	71	6	23	33
16	8	9	7	4	8	13	12	17	28	30	***	29	40	40	51	47	52	54	43	29	14	13	19	15	54	4	23	25
17	9	8	3	0	1	4	5	14	14	19	21	24	29	32	34	28	44	41	26	25	21	18	15	10	44	0	24	18
18	11	14	10	16	16	13	12	16	19	27	30	32	34	32	30	32	29	36	29	21	20	19	15	14	36	10	24	21
19	11	10	6	3	13	17	20	19	14	18	17	16	17	17	19	19	23	21	17	17	15	12	9	11	23	3	24	15
20	3	2	4	13	6	8	11	17	19	17	8	25	26	22	24	29	32	31	22	10	5	2	0	0	32	0	24	14
21	0	1	0	1	1	2	1	2	7	14	19	25	21	21	20	28	26	25	22	12	14	11	10	8	28	0	24	12
22	8	3	1	2	5	6	5	6	11	3	8	6	7	8	9	15	22	25	24	23	21	20	18	16	25	1	24	11
23	13	10	8	7	8	8	9	10	11	12	21	18	26	33	31	36	40	36	31	22	11	6	1	1	40	1	24	17
24	0	0	0	0	0	0	1	4	26	***	28	36	53	41	40	35	32	39	33	15	12	6	0	0	53	0	23	17
25	3	5	3	1	1	2	12	10	28	50	57	64	94	94	65	57	57	55	48	38	25	26	13	15	94	1	24	34
26	11	5	3	2	0	0	1	18	36	43	71	***	74	80	103	143	166	151	112	66	19	29	23	16	166	0	23	51
27	6	4	5	1	1	0	1	10	15	19	21	24	22	28	22	13	16	22	24	17	13	6	0	5	28	0	24	12
28	12	9	6	7	6	5	7	1	8	5	3	4	6	6	3	5	7	7	10	9	1	8	8	9	12	1	24	6
29	8	9	8	8	5	11	17	20	19	19	20	15	20	23	20	18	19	15	18	14	13	12	11	9	23	5	24	14
30	10	9	5	3	3	1	9	13	14	16	22	23	25	27	33	35	36	33	24	13	5	1	1	0	36	0	24	15
MONTHLY VALUES	9	7	6	6	6	6	8	14	21	24	29	31	36	39	39	40	41	40	35	23	17	13	12	11	166	0	700	21

TABLE B1-8

```
14:13  12-NOV-80              AQMS MONTHLY  -  ONE HOUR AVERAGES  -  SUMMARY REPORT
**************************************************************************************************************
                                   FOR THE MONTH OF   OCTOBER   1980
STATION 11     ROBSON SQUARE - ROBSON AND HORNBY - VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER BILLION
IMPLIED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                    H O U R                                                      DAY  DAY  #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN  AVE'S  MEAN

  1     7   7   9  11   8   4   0   0  15  15  15  15  11  13  13  13  15  17  17   9   6  10 *** ***     17    0   22    10
  2   *** ***   3 *** *** *** *** *** *** ***  65  28  23  23 ***  28  44  43  21  13  13  15  12   8     65    3   14    24*
  3     6  10  10  10  11  11  10  23  38  66 145 160 140  70  65  63  68  69  64  55  52  46  42  41    160    6   24    53
  4    36  33  31  25  24  27  29  29  29  31  36  29  38  47  43  61  53  47  37  34  26  27  29  28     61   24   24    34
  5    29  19  22  19  16  11  10  21  52  50  97  93  59  75  86  84  97  79  66  51  47  38  51  39     97   10   24    50
  6    34  33  30  29  20  27  17  19  28  31  35  42  48  55  51  38  43  38  37  29  29  34  24  25     55   17   24    33
  7    20  22  27  24  23  18  14 ***  41  62  70  67  61  59  53  42  38  35  33  30  30  28  30  28     70   14   23    37
  8    28  29  26  26  27  27  32  30  29  25  22  20  21  20  23  29  30  28  28  29  30  29  30  30     32   20   24    27
  9    29  21  23  21  23  21  24  28  28 ***  56  25  25  24  29  32  39  33  35  31  27  30  27  28     56   21   23    28
 10    47  25  29  43  27  27  29 ***  64  24  57  60  47  51  50  62  81  68  46  51  51  50  46  47     81   24   23    45
 11    38  38  37  36  36  34  31  29  40  42  57  44  41  40  38  41  40  45  47  44  43  41  42  38     57   29   24    40
 12    30  29  31  24  26  26  24  28  32  33  33  34  33  31  30  30  31  34  31  29  33  34  31  30     34   24   24    30
 13    28  24  23  23  24  27  26  26  25  26  29  33  34  31  32  31  30  28  28  24  27  24  24  23     34   23   24    27
 14    24  21  21  22  21  19  21  23  38  41  22  18  19  19  19  20  24  26  26  20  20  22  20  22     41   18   24    22
 15    17  17  16  17  16  18  20  30  29  24  19  17  18  18  19  20  20  21  20  20  16  20  21  20     30   16   24    19
 16    20  18  17  19  17  17  22  32  29 ***  70  76  55  46  49  45  46  50  44  41  36  35  34  31     76   17   23    36
 17    27  31  20  25  24  22  25  20 ***  21  28  35  35  43  36  34  40  43  37  35  31  30  24  27     43   20   23    30
 18    22  18  19  17  19  20  19  18  20  25  35  40  42  40  34  34  37  37  36  30  32  35  26  22     42   17   24    28
 19    21  16  12  14  12  11  12  13  16  23  19  32  33  46  41  62  45  37  32  25  24  24  22  20     62   11   24    26
 20    15  15  17  18  20  21  22  16  20  24  28  34  36  40  39  41  41  35  37  36  31  29  25  21     41   15   24    27
 21    22  25  16 *** ***  14  26  28  32  37  35  35  33  35  33  35  33  31  26  20  29  24  22  18     37   14   22    27
 22    20  17  19  18  15  16  16  18 ***  42  56  51  41 ***  28  29  39  32  24  20  20  21  18  22     56   15   22    26
 23    18  17  20  21  24  25  24  33  29  45  64  74  81  49  41  43  37  43  33  32  26  25  25  22     81   17   24    35
 24    29  22  34  32  25  29  26  25  30 ***  36  38  38  39  45  41  44  45  45  42  27  31  30  28     45   22   23    32
 25    24  25  23  24  24  25  29  24  26  26  26  26  26  33  37  42  44  41  34  11  27  24  19  21     46   19   24    28
 26    19  19  16  16  15  15  17  17  17  19  29  27  27  25  27  29  30  31  28  21  20  17  19  18     31   15   24    21
 27    17  15  16  19  20  16  18  22  35  40  46  50  47  45  37  46  46  47  32  30  27  23  17  17     50   15   24    30
 28    16  14  15  17  23  27  21  33  40  50  60  75  81  52  37  37  41  38  40  40  36  32  15  31     81   14   24    37
 29    36  31  24  21  21  19  19  23  29  31  37  42  39  42  40  39  37  38  32  29  31  28  26  26     42   19   24    30
 30    27  28  21  26  22  24  28  27  42  48  61  59  89  97  94  91  68  37  36  35  39  32  19  35     97   21   24    46
 31    33  34  39  27  18  28  39  42 ***  60  45  51  50  55  46  52  52  55  52  45  43  44  37  36     60   18   23    42
[illegible] HOURLY
VALUES 24  22  22  22  21  21  21  24  32  37  46  46  44  42  40  42  43  40  35  32  30  29  28  26    160    0  721    32
```

TABLE B1-8

```
DATE: 12-NOV-80              AQRS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT
****************************************************************************************************
                                       FOR THE MONTH OF   OCTOBER   1980
STATION T2     2294  WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** = INDICATES DATA UNAVAILABLE
                                                         H O U R                                                             DAY  DAY  #GOOD
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN  AVE'S  MEAN

   1     13  12  10  10  11  12  10 ***  25  15  15  15  11  13 ***  15  19  24  27  20  20  13  12  12      27   10   22    15
   2      8   9  11  15  10  15  15  25  30  45  35  23  10  12 ***  23  30  39  28  23  18  15  17  14      45    8   23    26
   3     17  15  15  14  13  17  14  18  59 106  70 170 180  60  46  51  68  68  62  60  51  52  50  41     180   10   24    53
   4     41  22 ***  12  10  11  18  22  18  19  15  22  24  26  28  50  48  51  50  45  44  36  30  24      51   10   23    28
   5     26  31  30  28  25  22  31  37  40  69  99  59  41  44  56  53  76  69  71  71  65  55  64  67      99   22   24    51
   6     50  50  41  37  31  28  28  30  38  39  45  46  43  53  53  46  41  36  35  34  36  37  40  35      58   28   24    40
   7     33  30  20  22  22  22  21  29  40  49  42  51  49  44  46  42  27  25  23  27  25  22  22  23      51   21   24    31
   8     20  17  15  12  12  17  17  22  16   9   7   7   7   5   7   9   9   7  12  11  12  15  28  28      28    5   24    13
   9     25  20  17  16  17  18  13  19  40  45  35  20  25  16  21  21  28  25  29  25  18  13  14  16      45   13   24    22
  10     15  14  13  14  11  11  15  25  47  55  42  35  33  34  35  39  44  39  34  30  39  44  38  34      55   10   24    30
  11     37  34  33  33  25  25  29  30  38  39  42  28  24  23  18  25  26  33  43  40  39  33  31  33      43   18   24    32
  12     30  29  27  23  20  19  16  19  23  26  25  24  25  19  17  15  17  26  24  17  15  15  24  27      30   15   24    21
  13     16  13  13  13  12  16  19  20  17  21  19  16  22  25  19  22  24  28  27  21  21  21  17  15      28   12   24    19
  14     14  12  12  11  13  15  10  16  31  33  11  11  10 ***  12  21  16  20  21  20  19  22  22  19      33   10   23    17
  15     17  13  11  11   9   9  12  15  17  13  10  11  13   9  12  12  16  19  20  14  17  13  11  11      20    9   24    13
  16     11  12  10  19  17  14  16  22  17 ***  55  42  28  33  39  39  42  44  39  37  32  31  37  37      55   11   23    29
  17     33  31  28  25  25  24  23  22 ***  26  33  32  33  32  33  30  36  34  31  27  23  26  28  27      46   22   23    28
  18     27  23  22  21  18  20  19  19  23  29  36  33  35  33  31  31  33  34  29  30  32  28  30  28      46   18   24    27
  19     23  20  18  15  12  13  13  14  16  22  32  42  47  54  44  48  45  33  26  28  30  23  25  21      54   12   24    27
  20     19  18  16  11  13  14  19  20  19  23  22  26  32  21  18  22  27  26  25  25  27  29  25  21      32   11   24    21
  21     23  22   8   2   1   1   6  17  20  22  15  21 ***  30  30  32  36  33  29  28  28  26  21  18      36    1   23    20
  22     21  21  19  16  15  10  14  16 ***  30  27  41  32 ***  16  24  31  34  28  26  24  19  20  20      41   10   22    23
  23     23  19  16  17  17  17  24  33  57  59  63  61  71  32  37  40  35  37  38  42  38  16  32  31      83   16   24    36
  24     28  25  19  21  23  27  35  39  30  35  45  38  38  35  39  38  38  38  35  33  31  30  29  29      45   19   24    32
  25     23  22  22  21  16  20  22  23  24  20  20  29  24  18  18  28  27  30  33  29  24  26  24  28      33   16   24    23
  26     21  22  22  19  16  15  16  15  13  18  25  33  21  15  21  15  21  26  25  25  27  20  17  18      33   13   24    20
  27     18  16  15  15  15  18  19  21  30  45  35  35  37  45  41  44  46  42  38  33  34  30  22  21      46   15   24    29
  28     16  17  16  16  15  16  17  20  35  50  60  35  37  30  36  38  42  41  36  39  30  38  49  54      60   15   24    31
  29     47  37  29  24  22  21  18  19  22  28   9  15  45  49  45  38  49  51  42  39  33  37  35  29      51    9   24    32
  30     25  27  22  18  15  17  21  26  45  74  63  43  76 ***  91  78  69  46  39  31  30  34  31  20      91   17   23    40
  31     23  16  29  19  13  14  25  42  41  43  42  46  40  43  43  36  35  39  40  37  33  31  31  18      46   13   24    32
MONTHLY
VALUES   24  22  20  18  16  17  19  23  30  37  34  37  37  31  33  33  36  35  33  32  30  28  28  26     180    1  733    28
```

TABLE B1-3

```
14:14  12-NOV-80              AQRS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                          FOR THE MONTH OF   OCTOBER   1980
STATION 13      MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER BILLION
ASSUMED DECIMAL X.XXX
*** = INDICATES DATA UNAVAILABLE
                                                         H  O  U  R
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY #GOOD  MEAN
                                                                                                         MAX  MIN AVER'S

   1    11   9   6   8   5   3   5  15  15  15  15 ***  11  14  14  16  19  21  15  10   6  12  13  13    21    3   23    11
   2     9   6   7  10  15  15  20  35  75  45  20  17  16  16 ***  25  27  21  12  10  17  30  19  26    75    6   23    21
   3    18  16  18  21  18  16  23  39  96  86  65 105  60  65  38  38  45  60  51  49  48  45  41  33   105   16   24    45
   4    33  27  24  16  15  17  20  17  14  11   9   8  11  15  21  27  30  46  45  41  28  28  20  19    46    8   24    22
   5    18  24  23  23  24  18  13  21  36  34  48  63  48  59  65  71  79  73  62  48  47  51  53  54    79   13   24    43
   6    40  32  28  28  34  30  23  30  37  34  35  29  25  20  19  17  17  25  26  24  20  21  31  18    40   17   24    26
   7    17  13  13  14  13   9  21  32  31  21  31  24  18  19  21  16  13  12  14  18  16  15  14  14    32    9   24    17
   8    12  15  10  13  14   9   5  14  23  11   9   9   9   9  12  14  13  14  13  11  11  14  16  18    23    5   24    12
   9    21  21  17  14  16  10  13 ***  28 ***  34  25  20  21  25  28  31  32  34  29  22  30  24  27    34   10   22    23
  10    20  18  18  16  18  18  29  45  57  48  39  30  33  50  63  60  43  45  37  42  41  41  42  40    63   16   24    37
  11    39  38  35  35  32  31  34  33  27  25  23  25  21  27  27  32  34  28  38  38  33  30  35  35    39   21   24    31
  12    31  33  32  31  20  15  16  21  21  19  17  22  21  19  16  13  14  14  17  15  11  18  27  28    33   11   24    20
  13    27  22  16  15  13  14  17  21  23  21  13  10  10   9  13  17  23  22  29  24  24  23  21  19    29    9   24    18
  14    20  15  17  15  10  13  24  23  38  33  13  12  12  11  15  14  16  19  15  21  17  22  21  21    38   10   24    18
  15    18  17  16  13  12  14  12  20  16  13  11 ***  11  13  15  13  16  12  10  12  14  10  14  13    20   10   23    13
  16    18  17  17  13  14  13  18  25  16 ***  32  25  27  30  29  37  34  37  33  30  32  30  32  31    37   13   23    25
  17    29  27  26  28  24  23  29  25 *** ***  22  25  26  27  28  32  32  35  29  31  27  29  36  30    36   22   22    28
  18    30  28  27  28  22  22  23  22  21  23  23  20  23  26  31  31  33  30  30  25  24  35  39  35    39   20   24    27
  19    28  22  22  20  15  13  12  14  18  25  12  18  45  34  56  50  48  43  38  32  30  31  42  42    56   12   24    30
  20    38  32  22  19  18  18  24  19  17  20  15  19  24  17  21  25  31  32  32  31  34  32  17  19    38   17   24    24
  21    15  14   9   7   9  12  14  17  17 *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    17    7    9   12*
  22   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  23   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  24   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  25   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  26   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  27   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  28   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  29   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  30   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
  31   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0    0*
MONTHLY
AVERAGES 23  21  19  18  17  16  19  24  31  26  25  28  24  25  28  29  30  31  29  27  25  27  27  26   105    3  481    24
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TABLE B1-8

14:14 12-NOV-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF OCTOBER 1980

STATION T4 KENSINGTON PARK - BURNABY

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

DATE	HOUR 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVG'S	MEAN
1	11	9	10	9	10	10	13	16	***	***	***	32	***	27	25	27	33	36	32	30	23	24	24	21	36	9	20	21
2	17	16	18	16	15	10	12	18	33	75	79	108	142	78	***	68	90	85	76	73	84	44	41	27	142	10	23	52
3	18	21	24	21	15	11	10	16	37	71	85	***	***	30	26	32	51	56	54	54	53	51	46	41	85	10	22	37
4	11	9	9	9	7	8	7	10	12	13	13	15	19	25	31	43	44	35	28	17	14	12	11	23	44	7	24	17
5	17	31	36	36	31	27	24	28	30	22	26	30	51	92	110	101	120	110	47	48	38	34	36	42	120	17	24	48
6	34	30	18	15	23	23	22	26	35	40	45	35	35	33	34	39	40	40	35	38	42	40	36	32	45	15	24	32
7	22	16	20	24	22	18	17	23	49	46	28	43	39	34	27	34	31	26	26	25	21	17	17	13	49	13	24	26
8	17	14	15	11	10	14	20	21	28	16	11	11	11	11	13	16	19	19	19	24	27	27	25	24	28	10	24	17
9	21	18	15	13	13	12	13	17	18	***	46	47	40	37	44	32	36	39	34	31	24	22	28	27	47	12	23	27
10	26	20	25	25	25	23	24	29	44	93	96	103	117	121	120	108	84	71	46	61	50	46	37	35	121	23	24	54
11	33	25	18	15	18	21	22	18	16	25	33	42	38	29	40	31	40	40	37	36	28	32	32	31	42	15	24	29
12	32	26	26	24	17	11	12	16	19	19	19	21	18	20	21	19	18	22	14	11	10	14	16	13	32	10	24	18
13	7	7	7	8	9	13	13	9	10	9	9	10	12	13	13	14	13	12	14	13	12	11	9	10	14	7	24	10
14	9	16	12	15	12	9	9	15	21	32	36	39	22	21	23	24	25	23	19	21	22	21	19	18	39	9	24	20
15	16	12	9	9	8	8	8	8	17	36	37	23	20	22	25	28	27	21	22	19	20	18	18	18	37	8	24	18
16	15	14	14	15	14	8	7	***	17	***	33	31	32	31	40	40	37	35	32	31	31	29	29	26	40	7	22	25
17	28	24	21	19	19	17	17	17	***	18	21	27	29	33	34	34	39	31	26	26	22	21	20	19	39	17	23	24
18	18	17	16	13	12	12	10	11	12	14	20	22	27	26	37	40	37	34	34	31	24	21	21	17	40	10	24	21
19	15	15	11	9	9	9	10	10	9	11	13	14	27	36	51	45	28	23	17	12	12	11	12	13	51	9	24	17
20	14	12	12	10	11	13	16	16	19	18	16	16	18	18	24	32	37	33	32	31	28	26	24	23	37	10	24	20
21	20	23	20	12	12	15	23	24	22	19	14	14	13	16	22	25	24	23	21	23	21	19	14	16	25	12	24	18
22	13	15	15	12	10	9	7	***	***	26	35	45	42	***	41	35	29	28	29	21	18	16	18	20	45	7	21	23
23	18	17	16	18	17	12	11	16	23	36	52	72	48	64	92	79	50	34	32	28	24	26	26	23	92	11	24	34
24	24	21	22	23	19	19	18	21	20	24	30	27	26	24	25	28	27	27	27	25	23	23	19	17	30	17	24	23
25	19	18	19	16	14	15	17	18	19	24	22	16	15	21	28	27	28	28	27	20	19	19	18	19	28	14	24	20
26	14	17	14	12	12	11	12	13	13	13	22	23	23	26	24	24	27	30	23	16	13	13	15	14	30	11	24	17
27	13	10	10	13	15	12	11	9	15	20	30	30	33	23	32	38	35	28	19	17	12	11	12	16	38	9	24	19
28	14	13	11	8	11	9	7	20	25	35	45	50	41	57	73	94	69	49	36	33	36	32	31	33	94	7	24	34
29	25	17	16	14	12	11	13	13	14	20	22	29	35	34	34	36	34	39	38	35	24	19	17	20	39	11	24	23
30	17	24	22	15	13	13	13	13	19	26	35	39	60	54	44	40	36	26	31	26	17	21	15	22	60	13	24	26
31	17	13	16	14	13	7	20	34	35	27	25	28	20	17	23	32	23	27	25	18	19	9	8	8	35	7	24	19
MONTHLY VALUES	19	18	17	15	14	13	14	17	23	30	33	35	36	36	39	41	40	37	31	29	26	24	22	22	142	7	730	26

TABLE B1-8

```
14:15  12-NOV-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                       FOR THE MONTH OF    OCTOBER    1980
STATION T5      CONFEDERATION  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                        H  O  U  R
 DATE     1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24    DAY  DAY #GOOD
                                                                                                                                    MAX  MIN AVE'S  MEAN

   1     20   15   18   15   12   12   25   30   62   65   45   35   28   24  ***   25   29   37   35   33   29   29   22   16     65   12   23     28
   2     16   20   21   19   18   13   13   31   55  101  115  135  125   63  ***   53   61   78   72   67   70   58   32   39    135   13   23     55
   3     35   26   25   27   24   19   21   32   57   79   98  ***  ***   40   34   50   71   70   68   61   60   60   53   41     98   19   22     47
   4     20   27  ***   13   12   13   16   17   19   20   19   22   24   25   28   31   54   30   10   10   13   21   29   34     54   10   23     22
   5     36   39   47   40   38   34   31   46   88   28   50   69   81   89   89   96   66   92  100   84   67   64   51   53    100   28   24     61
   6     50   38   34   30   36   39   30   37   45   52   57   41   40   40   45   51   52   57   49   46   49   48   43   41     57   30   24     43
   7     34   31   33   30   30   27   30   37   60   62   40   43   52   46   35   46   45   38   37   35   34   30   28   26     62   26   24     37
   8     27   26   26   19   15   16   27   38   39   22   19   17   15   17  ***   20   20   27   27   33   30   33   35   36     39   15   23     25
   9     29   25   21   15   14   21   22   24   55  ***   63   41   30   32   37   35   47   45   42   39   36   36   46   40     63   14   23     34
  10     38   38   38   33   32   30   36   49  122  157   77  104  118  108  103  115   99   68   69   81   59   65   51   48    157   30   24     77
  11     43   37   41   26   22   24   24   35   21   30   34   42   34   33   43   44   55   51   41   30   27   51   45   40     55   21   24     36
  12     34   35   33   30   25   13   10   13   21   16   24   23   29   33   31   27   26   32   26   24   24   19   18   10     35   10   24     24
  13      7    7    6    9    8    8    7    7    7    7    7    7    8    9   11    1    8   15   16   22   22   25   21   25     25    6   24     11
  14     23   24   17   13   14   21   20   21   23   40  ***   32   22   21   20   23   28   32   33   34   33   34   29   27     40   13   23     25
  15     23   17   15   14   13   13   15   18   48   41   41   25   26   27   31   33   36   31   29   28   29   29   28   23     48   13   24     26
  16     23   23   20   17   20   17   26   27   48  ***   66   49   43   50   58   64   55   53   50   46   42   40   39   40     66   17   23     30
  17     38   35   29   27   23   25   28   32  ***   29   37   42   39   44   48   46   52   49   45   46   38   29   28   29     52   23   23     36
  18     22   22   20   14   12   15   14   10   13   18   14   23   33   41   53   52   48   44   47   45   42   30   24   21     53   10   24     28
  19     22   23   20   17   20   16   15   18   23   18   18   26   34   46   68   54   35   34   26   21   19   16   29   24     68   15   24     26
  20     22   17   16   18   16   19   25   29   28   26   25   26   27   29   31   32   51   50   47   44   42   41   36   31     51   16   24     30
  21     27   24   29   14   13   15   29   30   31   25   20   19   18   21   21   24   31   33   28   28   27   30   24   29     33   13   24     24
  22     28   23   19   20   15   13   12   16  ***   52   49   50   68  ***   39   38   39   41   34   30   22   21   22   27     68   12   22     30
  23     27   28   26   23   23   24   27   37   35   80   90   73   69   94  100   99   81   58   37   30   31   29   37   30    100   23   24     44
  24     18   34   31   35   31   39   39   17   43   50   45   45   36   16   19   21   14   17   32   39   40   28   29   31     50   14   24     32
  25     31   30   26   25   22   22   22   27   30   32   31   26   25   27   30   27   33   37   37   28   27   25   25   25     37   22   24     27
  26     26   25   23   20   14   16   23   22   20   21   31   32   33   23   25   25   36   41   27   20   16   19   19   17     41   14   24     23
  27     17   16   15   20   19   18   20   26   39  ***  ***   41   52   34   40   42   41   37   19   27   24   23   23   23     52   15   22     28
  28     22   20   18   16   13   15   24   24  ***  ***  ***   43   66   93  112  111   64   73   64   54   53   46   45   44    112   13   21     48
  29     39   32   31   24   24   23   19   17   33   34   38   44   51   52   47   49   56   54   52   45   45   41   38   32     56   17   24     38
  30     30   36   37   24   22   21   22   26  ***   53   62   64   84   63   69   69   75   30   14   13   11   17   32   35     84   11   23     39
  31     19   15   13   14   12    9    9   12   19   13   14   15   12   11   14   23   34   25   19   14   14   16   17   18     34    9   24     15
MONTHLY
VALUES   28   26   25   21   20   20   22   27   40   43   44   42   44   42   46   46   47   44   40   37   35   34   32   31    157    6  726     34
```

TABLE B1-8

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14115  12-NOV-80            AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************
                                  FOR THE MONTH OF   OCTOBER   1980
STATION T6      75  RIVERSIDE  DRIVE - NORTH  VANCOUVER
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

                                                      H O U R                                                               DAY  DAY  #GOOD
DATE    1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   MAX  MIN  AVE'S  MEAN
  1    11    4    0    2    4    6   10   20   20   40   50   60  ***  ***   23   30   37   38   35   24   20   13    9    9    60    0    22    21
  2     8   11   11    5    5    9   14   17   34   69   96  176   86   51  ***   48   60   73   63   58   61   29   21   18   176    5    23    44
  3    10   17   20   16   13    6   10   21   54  112  100  110  100  120   38   38   54   66   51   33   31   40   23   24   120    6    24    46
  4    16   14    9   10    9   11   10   11   15   14   17   16   17   24   34   43   51   49   19   12    8    9   14   11    51    8    24    18
  5     6    9   11   13   10    7    7   15   30   28   35   44   55   41   70   67   88  100   79   43   24   22   27   18   100    6    24    35
  6    22   17   14   11    9   13   11   13   11   23   28   38   33   35   37   41   43   36   30   21   24   23   24   20    43    9    24    24
  7    21   17   13   15    6    2    6   11   30   37   45   35   53   40   41   38   30   22   16   13   17   17   16   16    53    2    24    23
  8    14   12   12   11   10    8    2    0    7   11    7    7    7  ***   15   16   20   19   21   29   29   28   16   13    29    0    23    17
  9     9    5    5    4    2   11   19   31   36  ***   62   45   39   33   35   35   44   46   41   36   28   30   31   31    62    2    23    28
 10    20   14   17   12   14   26   37   42   73  152   99  133  100   75   73   89   68   46   41   39   46   45   45   31   152   12    24    55
 11    29   27   17   16   18   17   13   16   17   18   30   48   45   42   44   47   53   45   39   27   29   34   23   20    53   13    24    24
 12    21   18   15   14   15   12    8   10   12   12   12   14   15   23   28   23   21   22   25   16   18   17   15    4    28    4    24    16
 13     5    6    9    6    5    4    6    6    8    8    5    4   11   10   14   11   11   13    9    9    7   12   17    7    17    4    24     8
 14     1    5    8    4    3    9   19   13   27   42   74   23   14   16   19   22   26   35   24   19   16   14   11    9    74    1    24    18
 15     6    5    3    1    2    8   10   19   20   44   32   17  ***   16   18   21   21   26   18   15   14   14   12    9    44    1    23    15
 16    10    4    0    0    0    0    3    2   20  ***   65   74   47   68   59   66   59   53   42   32   28   26   24   24    74    0    23    30
 17    17   14   14   13   12   11   14   17  ***   22   25   39   39   41   43   42   42   37   28   19   20   20   18   11    43   11    23    24
 18    12   14   11    9   10    9    9   11   11   13   13   11   24   31   36   36   35   28   25   22   17   18   19   16    36    9    24    18
 19     7    2    0    0    0    0    0    4    6    9   17    8   13   32   42   47   44   25   10    8    3    2    0    4    47    0    24    11
 20     7    8    1    7    8    8   12   16   16   19   19   20   21   24   27   27   30   21   20   14   11    9    9    9    30    1    24    15
 21     7    7   11   11   10   16   11   10   16   20   17   14  ***  ***   33   22   26   30   28   27   24   18   13   16    33    7    22    17
 22    13   11    5    3    8    9   20   22  ***   51   46   50   86  ***   38   38   42   43   34   20   13   11   13   12    86    3    22    26
 23    11    6    2    1    0    4   12   14   13   23   53   76   69   86   99  113  108   84   65  149  185   72   21   10   185    0    24    54
 24   ***  ***   40   19  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   11    9    7   12  ***    6  ***  ***  ***    40    6     7    17*
 25   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 26   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 27   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 28   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 29   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 30   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
 31   ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***   ***  ***     0     0*
MONTHLY
VALUES 12   11   10    9    8    9   11   15   23   37   41   46   44   43   39   40   43   40   33   30   28   23   18   15   185    0   547    25
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TABLE B1-8

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14:16  12-NOV-80           AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************************
                                          FOR THE MONTH OF   OCTOBER   1980
STATION 17     ANMORE  ELEMENTARY  SCHOOL - ANMORE

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                       H O U R                                                     DAY   DAY  #GOOD
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX   MIN  AVE'R  MEAN

   1    *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***   ***    0     0*
   2    *** *** *** *** *** *** *** *** *** *** *** 119 169 174 114  87  79  66  58  39  31  20  20  13   174    13   13    76*
   3     11  10  13  13   9  10   9   9  25  35  80  91  75  50  30  23  19  19  51  34  23  26  28  17    91     9   24    29
   4     15  14  13  13  14  11  11  12  10  14  18  19  35  44 ***  36  18  21  25  14  11   9   9   9    44     9   23    17
   5     11  14  17  18  11  10  12  11  23  37  54  13  26  27  66  70  72  85  78  61  15  12  12  11    85    10   24    31
   6     11   8   9  12  21  22  21  16  21  27  47  41  23  37  15  35  50  24  18  18  38  32  21  17    50     8   24    24
   7     14  10  11  10   6   6  13  10  26  36  50  22  31  65 ***  52  71  56  48  35  24  22  16  15    71     6   23    28
   8     16  12  11  13   8   7   9  11  19  30  21  16  17  18  19  16  22  18  18  19  16  18  12  11    30     7   24    15
   9      8   8   7   7   7  10  13   9   9 ***  51  65 ***  56 ***  52  42  33  32  24  18  17  11  11    65     7   21    23
  10     22  21  17  18  24  21  13  20  26  40  43  65  60  79  91  54  30  27  26  47  49  37  22  24    91    13   24    37
  11     17  17  19  19  20  16  16  14  18  36  44  42  60  51 ***  25  19  28  25  20  15  17  12  13    60    12   23    24
  12     13  13  11   9   7   6   6   6   9  11  14  15  15  20  28  28  23  17  18  15  13   9  10  10    28     6   24    13
  13      8   8   9   7   9   7   8   7   6   8   7   6   7   9   6   8   8  12  12  12  10   8   8   7    12     6   24     8
  14      6   5   6   6   6   8   7  11  13  27  41  75  74  42  43  38  38  30  23  20  17  17  15  15    75     5   24    24
  15     14  14  13  11  12  13  12  12  10  18  41  62  40  36  36  41  31  28  25  17  17  14  13  11    62    10   24    22
  16     11   9   7   7  10   9  12  11  10 ***  51  64  78  72  81  80  79  50  40  34  33  32  29  27    81     7   23    36
  17     23  21  23  17  17  19  20  21 ***  30  36  43  32  39  44  43  41  35  25  23  20  17  15  14    44    14   23    26
  18     14  13  13  10  10  12  13  12  13  33  32  30  32  30 ***  70  66  50  39  29  24  22  17  16    70    10   23    26
  19     14  12  11   9  10  11   9  11  12  17  27  37  34  27  28  31  24  21  16  14  12  11  13  10    39     9   24    17
  20      8  11   9   9   8  18  15  21  33  32  26  25  32  38  31  45  46  45  36  30  23  19  19  18    46     8   24    24
  21     19  16  25  26  24  26  31  32  34  23  19  18  17  20  19  18  19  18  14  13  14  14  12  11    34    11   24    20
  22     11   9  10   9  11  11  11  14 *** ***  41  42  52 ***  83  77  56  42  23  21  19  14  12  11    83     9   21    27
  23     11  10   9   9  13  20  18  16  22  52  53  56  77  58  65  56  43  34  24  21  15  17  13  12    77     9   24    30
  24     10  11  24  22  30  24  30  31  26  26  30  31  19  19  17  16  18  14  23  34  18  18  18  22    34    10   24    22
  25     24  24  23  19  19  18  16  17  16  23  29  28  26  23  19  17  19  19  17  17  14  13  14  12    29    12   24    19
  26     12  11  11  10   8  10   9   8  15  21  23  25  22  35  28  29  25  24  20  15  12  13  11  11    35     8   24    17
  27      9   9   9   9   9  11  12  12  10  12  14  39  55  72  72  46  26  20  17  17  16  12  12   9    72     9   24    22
  28     11  10   9   8  10  10   9   6   9  13  18  33  90 116 110  93  65  42  38  25  25  21  17  17   116     5   24    33
  29     17  15  15  14  13  10  10  13  16  30  35  43  43  46  42  31  21  20  17  15  13  11  11  11    46    10   24    21
  30     11   8   9  10   9  12  11  11  12 ***  33  50  48  52  81  44  18  16  16  13  11  12  12  12    81     8   23    22
  31     11  11  13  12  11  11  11  12  12  12  14  12  11  11  13  13  11   9  10   8   9  10  10  11    14     8   24    11
MONTHLY
VALUES   13  12  13  13  13  13  13  14  17  26  34  41  45  47  47  42  37  31  28  23  19  17  15  14   174     5  696    24
```

TABLE B1-8

```
14:16 12-NOV-80            AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT
*****************************************************************************************************************
                                    FOR THE MONTH OF   OCTOBER   1980
STATION 16     LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                     H O U R                                                    DAY  DAY  #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN  AVGES  MEAN

  1     8   9   9   7   8   7  10  15  26  28  21  12   5   4   7   9  12  19  12  13   8   6   5   5    28    4   24     10
  2     7   6   7   7   7   5   5  17  42  40  32   9   5   9 ***  14  15  22  16  15  10   8   9   5    42    5   23     14
  3     7   5  12  10   7   8  10  17  39  75  60 104  78  66  54  36  56  52  44  37  39  35  30  28   104    5   24     37
  4    29  34  16  26  27  12  14  21  17  15  16  18  24  22  25  30  30  38  33  30  31  30  19  18    38   12   24     24
  5    14  15  12  17  18  13  12  27 100 111  92  80  61  44  62  61  68  72  54  61  35  33  31  19   111   12   24     46
  6    24  20  20  15  16  18  18  28  37  42  61  48  43  39  27  15  21  20  20  21  22  25  22  24    61   15   24     26
  7    20  16  14  17  15  12  14  30  56  73  44  31  12  12  15  13  18  31  23  23  23  23  25  22    73   12   24     24
  8    22  22  21  19  17  14   9  16  10 ***   6   3   1   1   2   0   1  12   4  18  29  24  25  16    29    0   23     12
  9    14  14  13   8  10   9   9  10  26 ***  37  25   2   6   2   7  14  23  18  14  10  13  14  13    37    2   23     13
 10    14  15  15  14  18  18  15  21  37  45  65  47  40  23  25  29  31  35  33  18  20  13  23  22    65   14   24     28
 11    23  21  19  16  18  16  15  16  21  29  34  30  29  19  25  22  20  35  34  32  30  32  24  15    35   15   24     23
 12    13  18  13   9  17   9  10  22  26  23  25  18  20  23  24  23  20  20  25  22  22  15  16  15    26    9   24     18
 13    12  10  11  10   9   7  11   9  11  14  12   9  16  19  10  16  20  19  19  10  15  12  11  12    20    7   24     13
 14    10  11  13   7   6   6   6   8  21  28  19   4   1   1   1   4   9  11  10  11  10  16  11   9    28    1   24     10
 15     8   6   6   9   7   8   8   6  18  16  10 ***   5   8   6   8   8  12  10  10  12  11  10   9    18    5   23      9
 16    11  14   6  11   8   6   6  14  18 ***  42  55  43  20  21  21  31  33  26  20  20  20  18  17    55    8   23     21
 17    18  21  17  18  18  18  18  20 ***  19  29  31  34  34  35  28  27  27  21  13  14  14  18  15    35   13   23     21
 18    13  12  13  10   9   8   6  14  16  22  26  30  29  34  24  21  25  26  29  24  20  16  14  17    34    8   24     19
 19    13  12   6   2   3   4   5  12  18  22  32  31  34  43  41  42  32  20  23  19   9   9  10  10    43    2   24     18
 20     9  11  14  14  14  20  17  21  23  24  26  24  31  24  15  16  20  19  16  16  14  11  11  13    31    4   24     17
 21    11  11  14   7   5   5  15  15  23  32  26 ***  20  21  15  25  25  26  23  16  30   9   8   9    32    5   23     17
 22    11   6   7   5   4   2   5  11 ***  24  32  30  27   9  15  10  15  18  12  12  12  12  11  11    32    2   23     13
 23    14  13  14  15  10  12  11  17  25  29  34  36  46  23  17  18  20  24  16  17  23  20  14  18    46   10   24     20
 24    18  15  13  11  14  15  19  21  22  24  20  34  24  23  21 ***  28  29  28  29  30  29 *** ***    34   13   21     22
 25    24  24  22  21  21  19  19  20  20  25  21  22  22  22  25  20  17  26  20  15  14  17  16  15    28   14   24     20
 26    18  15  13  13   8   7   3  13  17  16  18  17  19  18  12  12  11  19  14  11  12  11   9   7    19    3   24     12
 27     8   8  11   8  10  13  17  14  28  35  37  28  46  35  37  42  40  33  29  17  12  11  16   7    48    7   24     22
 28     6   6   7   9   7   7  16   9  22  25  28 ***  48  42  24 *** ***  34  25  18  10  18  19  18    48    6   21     18
 29    17  13  11  13  11  13   8   6  14  17  24  25  22  23  24  25  29  31  23  17  19  17  17   7    31    6   24     17
 30     6   2   3   6   5   4   4   4  16  36  46  48  91  89  90  89  63  23  25 ***  26  30  39  41    91    2   23     34
 31    25  20  15  10  10  10  10  12  30  30  35  40  30  25  20  35  25  20  15  15  15  25  15  15    40   10   24     20
MONTHLY
VALUES 14  14  13  12  11  11  11  16  27  33  33  32  30  25  24  24  25  27  23  20  19  19  17  15   111    0  724     20
```

TABLE B1-8

```
14:17  12-NOV-80          AQMS  MONTHLY  -  ONE  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************************
                                FOR THE MONTH OF    OCTOBER    1980
STATION T9     ROCKY  POINT  PARK - PORT  MOODY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE
                                                          H  O  U  R                                                            DAY   DAY  #GOOD
 DATE     1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24    MAX   MIN  AVE'S  MEAN

   1      9    8    9   11    9    7   10   20   40   30   30   50   39   29   34   34   47   41   37   31   26   21   18   16     50     7   24     25
   2     13   11   10   10   10    8    8  ***  ***   57   37   68  105  156  ***   36   87   94   81   68   53   40   30   27    156     8   21     49
   3     21   18   15   16   18   17   25   28   38   53   80   80   70   50   32   27   42   62   58   51   44   41   36   36     80    15   24     40
   4     29   19   27   21   19   11   17   25   13   10   11   14   15   22   35   64   64   41   28   29   24   21   20   19     64    10   24     24
   5     18   17   17   17   19   18   16   18   39   36   41   36   57   57   91   91  114  108   83   73   46   41   34   25    114    16   24     46
   6     19   16   14   14   13   14   15   22   26   34   35   30   24   22   33   59   56   50   45   40   35   29   26   22     59    13   24     28
   7     18   16   15   15   13   12   13   17   26   33   32   24   29   45   36   40   47   39   31   27   24   22   21   20     47    12   24     25
   8     19   19   19   15   15   17   16   18   27   32   16   15   16   15   17   23   25   22   20   27   28   25   25   20     32    15   24     20
   9     17   15   14   14   15   12   12   20   27  ***  ***   35   53   42   48   56   50   54   39   32   31   29   28   24     56    12   22     30
  10     21   22   22   21   22   21   23   28   39   67   77   60   58   80  111  110  112   95   76   56   40   39   33   28    112    21   24     52
  11     25   25   21   24   25   21   19   23   35   32   19   32   44   28   28   36   36   39   34   32   28   24   21   22     44    19   24     28
  12     22   20   16   16   10    8   12   17   18   21   21   23   25   24   21   22   18   23   17   15   15   13   12   17     25     8   24     17
  13     11   12   10   12   12   13   15   16   15   15   11    1    2    0    4    3   10   23   18   17   14   13   14   13     23     0   24     11
  14     12   12   11   11   10    9   11   20   19   26   29   54   38   30   27   24   30   27   21   18   16   18   17   18     54     9   24     21
  15     16   13   10    9   11   10   10   13   21   29   41   41   27   24   24   32   35   32   27   23   17   16   16   16     41     9   24     21
  16     14   13   12   11   15   14   16  ***   21  ***   53   53   36   34   36   41   38   34   29   29   17  ***  ***  ***     53    11   19     27
  17    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  18    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  19    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  20    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  21    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  22    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  23    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  24    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  25    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  26    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  27    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  28    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  29    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  30    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
  31    ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***  ***    ***   ***    0     0*
MONTHLY
VALUES   18   16   15   15   15   13   15   20   27   34   36   38   40   41   38   46   51   49   40   35   29   26   23   22    156     0  374     29
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TABLE B1-8

14:17 12-NOV-80 AQMS MONTHLY - ONE HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF OCTOBER 1980

STATION T10 3200 HASTINGS STREET - PORT COQUITLAM

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL X.XXX
*** - INDICATES DATA UNAVAILABLE

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVE'S	MEAN
1	***	0	0	0	0	2	17	20	21	18	18	17	53	46	43	46	61	57	34	18	11	13	16	11	61	0	23	22
2	3	0	0	2	0	***	0	11	24	46	43	***	82	91	***	126	122	93	94	58	38	51	30	20	126	0	21	44
3	20	14	4	0	0	***	***	***	11	32	61	56	90	72	***	***	72	65	***	27	23	18	18	14	90	0	18	33
4	10	16	15	8	10	5	13	9	6	18	27	30	32	***	***	***	***	***	***	***	***	14	15	12	32	5	16	15*
5	16	11	12	10	5	5	7	7	33	40	45	45	53	62	***	***	***	***	***	26	31	26	17	11	62	5	19	24
6	10	7	8	6	2	0	1	12	23	20	17	30	33	35	47	58	54	48	31	25	19	11	10	10	58	0	24	21
7	13	7	7	4	0	0	0	5	17	24	***	28	34	46	51	51	34	23	17	12	12	15	9	14	51	0	23	18
8	14	11	12	13	11	11	6	5	20	31	29	24	21	20	24	28	27	29	30	23	17	12	10	8	31	5	24	18
9	3	2	5	11	10	6	1	2	1	6	7	13	17	36	69	84	71	55	42	32	23	14	12	19	84	1	24	22
10	11	14	15	14	10	9	6	11	17	17	63	89	100	102	116	128	81	41	23	27	27	19	11	5	128	5	24	41
11	5	4	5	5	2	1	2	2	13	15	17	26	49	59	49	44	43	38	27	17	10	25	26	17	59	1	24	20
12	10	11	12	14	2	2	7	15	19	14	15	17	20	20	17	19	18	17	13	13	14	9	19	12	20	2	24	13
13	8	2	4	1	2	2	***	***	***	1	***	***	1	1	3	3	6	8	4	8	7	3	0	2	8	0	19	3
14	1	0	0	0	***	***	***	***	4	18	13	26	55	49	33	38	34	27	18	11	3	2	1	5	55	0	20	16
15	8	1	9	0	0	2	1	0	9	29	30	60	43	36	35	36	39	32	23	13	6	***	6	4	60	0	23	17
16	1	0	***	***	***	***	***	0	9	***	23	***	48	36	40	46	40	35	29	28	22	17	7	7	48	0	17	22*
17	7	1	9	12	10	5	16	16	***	15	25	24	38	35	38	43	48	38	25	20	15	11	12	10	48	1	23	20
18	8	10	9	3	7	5	11	6	16	18	23	28	34	37	46	55	70	57	52	37	29	21	15	14	70	3	24	25
19	19	25	26	20	15	10	8	9	10	11	13	16	17	11	14	16	17	25	23	29	29	25	16	12	29	8	24	17
20	10	15	15	16	9	5	11	16	20	26	33	38	39	41	46	41	38	42	39	32	24	16	9	6	46	5	24	24
21	5	7	10	26	28	26	22	23	22	30	20	20	18	29	28	29	24	21	21	12	7	5	***	4	30	4	23	19
22	0	0	1	0	***	***	***	5	4	3	15	42	54	71	88	90	59	47	32	18	15	11	8	9	90	0	21	27
23	10	5	3	1	7	3	5	4	20	30	28	26	29	34	46	46	39	26	19	24	26	25	14	12	46	1	24	20
24	11	9	9	11	9	10	5	12	18	21	30	22	23	17	21	26	24	26	25	28	28	24	18	19	30	5	24	18
25	20	20	16	15	15	14	11	16	15	22	28	30	34	35	31	24	23	23	29	15	10	12	10	11	35	10	24	20
26	13	10	10	4	4	6	5	6	13	11	23	27	31	49	50	54	53	41	24	9	4	6	3	***	54	3	23	19
27	0	1	1	1	0	***	***	***	6	6	15	19	26	25	33	40	26	21	15	16	14	13	8	0	40	0	21	13
28	7	3	10	11	2	0	***	2	1	7	14	34	58	64	63	40	35	29	22	21	22	10	9	5	64	0	23	20
29	3	2	1	0	1	0	***	***	2	12	22	29	36	42	39	33	26	40	45	36	30	20	18	16	45	0	22	20
30	11	13	4	0	0	***	***	***	5	1	10	***	26	33	26	19	24	13	11	16	6	16	10	15	33	0	20	13
31	8	6	21	6	3	2	10	22	17	8	23	23	8	11	14	27	16	10	8	8	12	13	4	7	27	2	24	11
MONTHLY VALUES	9	7	8	7	6	5	7	9	14	19	25	31	39	42	41	46	42	35	28	22	18	16	12	10	128	0	687	21

TABLE B1-9

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**************************************************************************************************************************
 11:28  31-OCT-82            AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
**************************************************************************************************************************
                                  FOR THE MONTH OF  SEPTEMBER  1982
STATION T1      ROBSON SQUARE - ROBSON AND HORNBY - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                     H O U R                                             DAY  DAY #GOOD
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S MEAN

   1      2   2   2   2   2   2   3   3   2   3   3   3   4   1   4   4   4   4  [illegible]   5   5   4   3   3    5    2  24    3
   2      2   3   3   3   2   3   3   5   4   2   3 *** *** ***   4   3   4   3   3   3   4   5   4   4    5    2  21    3
   3      5   5   5   4   4   4   5   5   7   8   5   4   4   4   4   4   4   4   4   3   3   4   3   3    8    3  24    4
   4      3   3   2   2   2   2   2   2   2   2   3   2   2   2   2   3   2   2   3   3   3   2   2   2    3    2  24    2
   5      2   2   1   1   1   1   1   1   1   2   3   3   3   2   2   2   3   3   3   3   3   3   2   2    3    1  24    2
   6      2   2   2   2   2   2   2   3   4   3   3   3   3   2   3   3   2   4   4   3   3   3   3   3    4    2  24    3
   7      3   2   2   2   2   2   3 ***   3   4   4   5   4   5   4   5   5   4   3   3   3   3   3   3    5    2  23    3
   8      2   2   2   2   2   2   3   3   3   4   3   4   4   4   5   5   5   4   1   3   3   3   3   3    5    2  24    3
   9      3   3   2   1   1   2   3 *** ***   3   3   3   3   2   3   4   3   3   3   3   3   3   3   2    4    1  22    3
  10      2   2   1   1   1   1   2   2   2   2   3   2   2   3   3   3   3   3   3   3   3   3   2   2    3    1  24    2
  11      2   2   2   2   2   2   2   2   2   3   3   2   2   3   3   3   2   3  [illegible]   3   3   2   2   2    3    2  24    2
  12      2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   3  [illegible]   3   2   2   2   1    2    1  24    2
  13      2   1   1   1   1   2   3   3   4   3   2   2   2   2   2   3   3   3  [illegible]   3   3   3   2   2    4    1  24    2
  14      2   2   2   2   2   2   3   5   4   5   3   2   2   2   3   3   3   3  [illegible]   3   3   3   2   2    5    2  24    3
  15      2   2   2   2   2   2   3   4   5   6   5 *** ***   5   5   5   5   3  [illegible]   5   5   4   3   4    6    2  22    4
  16      4   3   3   3   4   3   6   7   8   6   6   4   4   4   3   3   3   3  [illegible]   3   4   4   4   3    8    3  24    4
  17      3   3   3   4   3   3   4   6   9  10  12  10   7   7   6   4   4   4   1   4   4   5   4   4   12    3  24    5
  18      4   4   3   3   4   4   4   5   7   9  10   9   6   5   4   5   4   4   4   4   5   5   5   4   10    3  24    5
  19      4   4   4   4   4   4   3   3   7   8   7   3   3   2   3   3   2   3  [illegible]   4   4   4   4   3    8    2  24    4
  20      3   3   3   3   2   2   3 ***   3   3   4   5   6   4   4   5   4   3  [illegible]   4   3   3   3   3    6    2  23    4
  21      3   3   3   3   3   2   2   2   2   2   2   2   3   3   3   3   3   3  [illegible]   3   3   3   2   2    3    2  24    3
  22      2   1   2   2   2   1   2   2   4   3   2   2 ***   2   2   2   3   3  [illegible]   3   2   3   2   2    4    1  23    2
  23      2   2   2   1   2   1   1   2   3   4   4   3   3   3   3   5   4   3  [illegible]   3   3   3   3   3    5    1  24    3
  24      3   4   3   4   3   3   3   3   3   3   3   4   4   4   4   5   4   3  [illegible]   3   4   3   2   3    5    2  24    3
  25      3   3   2   2   2   2   2   3   2   2   2   3   3   3   4   3   3   3  [illegible]   3   3   2   2   2    4    2  24    3
  26      2   2   2   2   2   2   2   2   1   1   1   1   1   1   2   2   2   2  [illegible]   2   2   1   2   2    2    1  24    2
  27      1   1   1   1   1   1   2   2   2   3   3   2   2   2   2   2   3   2  [illegible]   2   2   2   2   2    3    1  24    2
  28      2   2   1   1   1   1   1 *** ***   2   2   2   2   2   3   3   3   3  [illegible]   3   3   2   1   1    3    1  22    2
  29      1   1   2   1   1   1   2   3   4   7   5   4   3   3   3   3   3   4  [illegible]   3   3   3   3   2    7    1  24    3
  30      2   2   2   2   2   2   3   5   5   5   2   3   3   4   3   3   4   4  [illegible]   3   3   3   3   3    5    2  24    3
MONTH TO
 DATE     3   2   2   2   2   2   3   3   4   4   4   3   3   3   3   3   3   3       3   3   3   3   3   12    1 708    3

95 PERCENTILE  =     5              98 PERCENTILE  =    7              99 PERCENTILE  =

DATA RECOVERY  =    98.3 %

DAYS OF VALID DATA  =  30
**************************************************************************************************************************
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TABLE B1-9

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*******************************************************************************************************************
 11:29  31-OCT-82           AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************************
                                  FOR THE MONTH OF  SEPTEMBER  1982
STATION T2      2294  WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                             H O U R                                                        DAY  DAY #GOOD
 DATE     1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   MAX  MIN AVE'S MEAN

    1     3    3    2    2    2    2    2    2    2    1    1    2    2  ***    1    2    2    2    3    4    4    4    4    3     4    1   23    2
    2     3    3    2    2    2    2    2    2    2    1    2    2    2    1    2    2    3    3    3    3    3    3    3    3     3    1   24    2
    3     4    3    3    2    2    3    4    4    7    4    3    3    3    2    2    3    3    3  ***    3    3    3    3    3     7    2   23    3
    4     2    2    1    1    1    2    1    2    2    2    2    1    1    2    1    2    2    2    2    2    2    2    2    2     2    1   24    2
    5     2    2    2    1    1    1    1    1    2    2    3    2    2    2    2    2    2    2    3    3    2    2    2    2     3    1   24    2
    6     2    2    2    2    2    2    2    3    3    2    1    2    2    1    1    1    2    2    3    3    3    3  ***    3     3    1   23    2
    7     2    2    2    2    1    2    2  ***    2    3    3    3    3    2    3    3    4    3    3    3    3    2    3    3     4    1   23    3
    8     2    2    2    1    1    1    2    2    2    2    2    2    2    3    2    2    3    3    3    3    3    3    3    4     4    1   24    2
    9     2    2    1    1    1    1  ***    1    1  ***  ***  ***  ***  ***  ***  ***    1    2    3    3    3    2    2    2     3    1   16    2*
   10     2    2    2    1    1    1    2    1    1    1    1  ***  ***  ***  ***    1    1    2    3    2    3  ***    3    3     3    1   19    2
   11     1    1    1    1    1    1    2    2    3    3    3    3    3    2    2    3    2    3    2    3    3    2    1    1     3    1   24    2
   12     2    2    1    1    1    1    1    1    1  ***    1    1    1    1    1    1    1    1    1    2    2    2    2    2     2    1   23    1
   13     2    1    1    1    1    1    1  ***    3    1    1    1    1    1    2    2    2    2 [illegible]    3    3    2    2    2     3    1   23    2
   14     2    2    2    2    2    2    3    4    5    3    2    1    1    1    2    1    2    2 [illegible]    3  ***    3    3    2     5    1   23    2
   15     2    2    2    2    2    2    2    3  ***    3    7    6    5    4    3    3    4    4    5    5    5    4    4    4     7    2   23    4
   16     4    3    4    4    3    3    3    6    5    6    4    3    2    2    2    2    3    3    1    4    4    4    4    4     6    2   24    4
   17     4    4    4    3    3    3    3    4    6    8    9    8    6    5    4    3    3    4    5    5    5    5    5    5     9    3   24    5
   18     5    5    4    4    3    3    3    3    6   10   11    9    6    4    4    3    3    5    5  ***    4    4    4    4    11    3   23    5
   19     4    4    4    3    2    2    3    4    6    9    7    2    1    1    2    2    3    4    4    4    4    4    4    4     9    1   24    4
   20     3    3    3    3    3    2    3  ***    3    3    4    6    5    4    5    4    4    4    3    4    4    4    3    3     6    2   23    4
   21     3    3    3    2    2    2    2    2    2    2    2    2    2    2    3    3    3    3 [illegible]    3    3    3    2    2     3    2   24    3
   22     2    2    2    1    2    2    2    3    4    3    2    2    2    2    2    1    2    2  ***    3    3    2    2    2     4    1   23    2
   23     1    1    1    1    1    1    1    1    2  ***    3    2    2    2    2    2    2    2 [illegible]    3    3    3    3    3     3    1   23    2
   24     3    2    2    2    3    3    4    3    3  ***    3    4    5    4    4    4    4    3 [illegible]    3    3    3    3    3     5    2   23    3
   25     3    3    3    1    2    2    2    2    2    2    2    3    3    3    3    3    2    2 [illegible]    4    3    3  ***    2     4    1   23    3
   26     2    1    1    1    1    1    1    0    0    1    0    0    0    0    0    0    1    0    1 [illegible]    2    2    2    2     2    0   24    1
   27     2    1    1    1    1    1    2    2    3    3    3    2    0    0    1    1    1    2 [illegible] [illegible]    2    2    2    2     3    0   24    2
   28     2    2    2    1    1    0    1    2    2    1    1    1    1    1    3    3    3    3 [illegible] [illegible]    3    2    2    2     3    0   24    2
   29     1    1    1    0    0    0    1    3    5    5    5    2    2    1    2    3    3    3 [illegible]    3    3  ***    3    2     5    0   23    2
   30     2    2    2    2    2    2    2    4    6  ***    2    2    2    2    2    3    3    4 [illegible] [illegible]    3    3    3    3     6    2   23    3
MONTH TO
 DATE     2    2    2    2    2    2    2    3    3    3    3    3    2    2    2    2    2    3              3    3    3    3    11    0  691    3

95 PERCENTILE  =     5          98 PERCENTILE  =     6          99 PERCENTILE  =

DATA RECOVERY  =    96.0 %

DAYS OF VALID DATA  =  29
*******************************************************************************************************************
```

TABLE B1-9

```
**********************************************************************************************************************************
 11:30  31-OCT-82            AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
**********************************************************************************************************************************
                                     FOR THE MONTH OF  SEPTEMBER  1982
STATION T3     MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                 H O U R                                                     DAY  DAY #GOOD
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24      MAX  MIN AVE'S MEAN

   1     2   2   2   2   1   1   1   2   2 *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***        2    1    9    2*
   2   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   3   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   4   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   5   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   6   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   7   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   8   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
   9   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  10   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***      ***  ***    0  ***
  15   *** *** *** *** *** *** *** *** *** *** ***   2   2   2   2   2   3   3   4   3   3   3   3   3        4    2   13    3*
  16     3   2   2   3   2   2   2   4   5   4   2   2   2   2   2   3   3   3   3   3   2   2   2   2        5    2   24    3
  17     2   3   3   2   2   2   2   4   5   6   5   3   3   4   4   3   3   3   4   3   3   3   2   2        6    2   24    3
  18     3   3   2   2   2   1   2   4   5   5   5   6   5   4   3   4   2   4   3   3   3   2   2   2        6    1   24    3
  19     2   2   2   2   2   1   1   2   4   4   3   2   3   1   2   2   2   2   3   3   3   2   2   2        4    1   24    2
  20     2   2   2   2   2   2   2 ***   2   2   2   3   3   3   3   3   3   2 [illegible] 3   3   3   2   2        3    2   23    2
  21     2   2   2   2   2   2   2   2   2   2   1   1   1   1   2   2   2   2 [illegible] 1   1   2   1   1        2    1   24    2
  22     2   2   1   1   1   1   1   1   2   2   2   1   2   2   2   2   2   2 [illegible] 2   2   1   2   1        2    1   24    2
  23     1   1   1   1   1   1   1   1   1   2 ***  ***  2   2   2   4   3   2 [illegible] 3   1   1   1   1        4    1   22    2
  24     1   1   1   1   1   1   2   1   2   2   3   3   3   3   3   3   3   3 [illegible] 3   2   2   2   2        3    1   24    2
  25     2   2   2   2   2   2   2   1   1   1   2   2   2   2   2   1   1   2 [illegible] 3   2   2   2   2        3    1   24    2
  26     2   2   2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1 [illegible] 2   1   2   1   1        2    1   24    2
  27     2   1   1   1   2   1   1 *** ***   2   2   1   1   2   2   2   2   2 [illegible] 2   2   1   2   2        2    1   22    2
  28     2   2   2   1   1   2   2   2   2 ***   2   1   1   2   2   2   2   3   3   3   2   1   1   1        3    1   23    2
  29     1   1   1   1   1   1   1   2   3   4   3   3   2   2   2   2   2   2   3   2   3   3   2   2        4    1   24    2
  30     2   2   1   1   2   1   2   2   3   3   2   2   2   2   2   2   2   3   3   2   2   1   2   2        3    1   24    2
MONTH TO
 DATE    2   2   2   2   2   1   2   2   3   3   3   2   2   2   2   2   2   3       2   2   2   2   2        6    1  376    2*
95 PERCENTILE  =     4               98 PERCENTILE  =     5          99 PERCENTILE  =   [illegible]

DATA RECOVERY  =    52.2 %

DAYS OF VALID DATA  =  15
**********************************************************************************************************************************
```

TABLE B1-9

```
****************************************************************************************************************
 11:33  31-OCT-82          AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************************
                              FOR THE MONTH OF  SEPTEMBER  1982
STATION T4     KENSINGTON  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                            H  O  U  R                                                      DAY  DAY #GOOD
  DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN
    1     1   1   1   1   1   1   0   1   2   2   2   2   2   2   2   2   2   3   3   1   3   2   2   2      4    0  24     2
    2     1 ***   1   1   2   0   1   2   6   6   6   4   6   6 ***   8   7   7 [illegible] 1 3   3   4   3      8    0  22     4
    3     2   3   1   1   2   2   2   3   4   3   3   2   2   2   2   2   2   2   2   2   2   2   2   2      4    1  24     2
    4     2   1   2   2   2   2   2 *** ***   1   1   1   2   1   2   2   2   1   1   1   1   1   1   1      2    1  22     1
    5     2   2   2   3   0   0   0   0   0   0   1   1   2   2   2   2   2   2 [illegible] 2 2   1   2   1      3    0  24     1
    6     1   2   2 ***   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   2   1   1   1   1      2    1  23     1
    7     1   1   1   1   1   1   1 ***   1   1   1   1   2   2   2   2   2   1   1   1   1   1   1 ***      2    1  22     1
    8   ***   1   1   1   1   1   1   1   2   2   1   1   2   2   2   1   1   1   1   1   1   2   1 ***      2    1  22     1
    9     2   2   1   1   1   1   1   2   2   2   2 *** ***   2 *** ***   2   2 [illegible] 2 2   3   2   2      3    1  20     2
   10     1   1   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2 [illegible] 2 2 *** ***   2      2    1  22     2
   11     2   2   2   2   1   2   2   2   1   1   1   1   2   1   1   1   2   2 [illegible] 1 1   1   1   1      2    1  24     2
   12   ***   1   1   1   2   1   1   1   1   1   1   1   1   1   1   1   2   2 [illegible] 1 1   1   1   1      2    1  23     1
   13     2   1   1   1   1   1   1   2   2   2   3   2   1   2   2   2   1   1 [illegible] 2 1   1 ***   1      3    1  23     2
   14     1   1   1   2   2   1   1   1   2   1   2   3   2   2   2   2   2   2 [illegible] 2 2   1 *** ***      3    1  22     2
   15     2   2   2   2   2   1   1   2   2   3 ***   6   8   7   6   5   3   3 [illegible] 3 4   3   3   3      8    1  23     4
   16     3   2   3   2   1   1   1   2   4   6   6   6   5   4   3   2   5   5 [illegible] 3 5   3   3   3      6    1  24     3
   17     3   2   2   2   2   1   1   2   5   4   4   4   3   5   7   6   7   3 [illegible] 3 5   4   3   4      7    1  24     4
   18     4   3   2   1   1 ***   2   3   3   4   4   4   6   5   5   3   6   4 [illegible] 3 4   5   4   4      6    1  23     4
   19     2   2   2   1   1   2   2   3   3   3   2   2   1   1   2   3   3   3 [illegible] 4 4   4   3   3      4    1  24     3
   20     3   2   2   2   2   2   2 ***   2   2   3   3   3   4   4   4   4   3 [illegible] 1 2   3   2   2      4    2  23     3
   21     2   1 ***   1   1   2   1   1   2   2   2   2   2   2   2   3   3   3 [illegible] 2 2   1   1   1      3    1  23     2
   22     1   1   1   1   1   0   0   1   2   3   3   2   2   2   2   3   3   3 [illegible] 2 2   2   2   2      3    0  24     2
   23     2   1   1   1   1   0   0   0   2   5   7   8   8   5 ***   7   5   7 [illegible] 4 4   4   4   2      8    0  23     4
   24     2   2   1   2   1   1   1   1   2   2   2   3   3   3   2   3   3   2 [illegible] 3 2   2 ***   1      3    1  23     2
   25     2   1   2   2   2   1   1   1   1   1   1   2   2   2   2   2   2   2 [illegible] 2 2   2   1 ***      3    1  23     2
   26     1   1   1   1   1   1   2   1   1   1   2   2   1   2   2   3   3   2 [illegible] 2 2   1   2   2      3    1  24     2
   27     1   1   1   1   1   0   0   1   2 ***   2   2   2   2   2   2   2   2 [illegible] 2 ***  1   2   1      2    0  22     2
   28     1   1   1   1   1   1   0   0   1   1   2   3   2   3   2   3   2   3 [illegible] 2 1   1   1   1      3    0  24     2
   29     1   1   1 ***   1   0   0   1   2   4   6   6   4   3   2   3   2   3 [illegible] 2 1   1   2   1      6    0  23     2
   30     1   1   1   2   1   1   1   1   1   3   2   3   4   3   4   3   3   4 [illegible] 2 2   3   2   2      4    1  24     2
MONTH TO
  DATE    2   2   2   1   1   1   1   2   2   2   3   3   3   3   2   3   3   3 [illegible] 2 2   2   2   2      8    0 691     2
95 PERCENTILE  =     5            98 PERCENTILE  =    6            99 PERCENTILE  =

DATA RECOVERY  =    96.0 %

DAYS OF VALID DATA  =  30
****************************************************************************************************************
```

TABLE B1-9

11134 31-OCT-82 AQMS MONTHLY .- 1 HOUR AVERAGES - SUMMARY REPORT

FOR THE MONTH OF SEPTEMBER 1982

STATION T5 CONFEDERATION PARK - BURNABY

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
- INDICATES DATA UNAVAILABLE
- MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVE'S	MEAN
1	2	2	2	2	2	2	2	3	3	3	2	2	2	2	2	2	3	3	[illegible]	5	5	4	4	4	5	2	24	3
2	3	3	2	2	2	2	3	5	6	10	5	7	7	7	7	7	7	5	[illegible]	2	4	3	5	5	10	2	24	3
3	4	4	4	4	3	3	4	5	6	4	4	3	3	###	###	###	###	###	###	###	###	###	###	###	6	3	13	4#
4	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	0	###
5	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	0	###
6	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	###	0	###
7	###	###	###	###	###	###	###	###	###	###	###	###	###	2	1	1	1	0	[illegible]	0	0	1	1	0	2	0	11	1#
8	1	1	0	2	1	2	2	2	2	###	###	###	###	2	2	2	1	1	[illegible]	1	1	1	1	1	2	0	20	1
9	2	2	1	1	1	1	3	3	3	3	2	2	2	3	2	3	3	3	[illegible]	1	3	3	3	3	4	1	24	2
10	2	2	2	2	1	1	2	2	3	2	1	1	1	3	2	3	2	2	[illegible]	4	3	3	3	3	4	1	24	2
11	3	2	1	1	1	1	1	1	1	1	2	2	1	1	2	2	2	2	[illegible]	4	3	3	3	2	3	1	24	2
12	2	1	1	1	1	1	1	1	1	1	2	1	1	2	1	2	2	2	[illegible]	4	3	3	2	2	3	1	24	2
13	1	1	1	1	1	1	1	2	2	3	4	1	2	1	2	1	2	3	[illegible]	4	3	2	2	1	4	1	24	2
14	2	2	3	2	2	3	3	2	3	###	###	3	2	2	2	2	3	3	[illegible]	3	3	3	3	3	3	1	22	2
15	2	3	2	2	2	2	3	3	4	4	6	7	2	1	3	2	3	3	[illegible]	3	3	3	3	3	7	1	24	3
16	4	4	3	3	3	2	2	7	6	7	11	6	5	6	5	4	5	5	[illegible]	5	5	4	4	4	11	2	24	4
17	4	3	3	3	2	2	3	4	6	5	5	6	8	3	3	3	4	3	[illegible]	4	4	5	5	5	8	2	24	4
18	5	4	4	4	4	4	3	4	4	4	4	6	6	7	6	6	4	3	[illegible]	4	4	4	4	4	6	2	24	4
19	4	3	3	2	2	3	3	4	4	3	3	2	5	5	4	3	3	5	[illegible]	3	4	5	5	5	5	2	24	3
20	3	3	3	3	3	3	3	###	3	3	3	2	###	3	3	3	3	5	[illegible]	3	3	4	4	4	6	2	22	3
21	3	3	2	2	2	2	2	2	2	3	3	2	3	3	5	5	6	4	[illegible]	3	3	3	3	3	4	2	24	3
22	2	2	1	1	1	1	1	2	4	3	4	2	2	3	3	4	4	4	[illegible]	4	3	3	3	3	4	2	24	3
23	2	2	1	2	1	1	2	4	6	11	10	11	2	5	3	4	4	3	[illegible]	4	3	3	5	3	11	1	24	3
24	4	4	5	4	5	4	4	5	5	5	6	5	3	4	5	6	6	7	[illegible]	8	7	6	5	6	8	1	24	3
25	7	6	6	5	4	4	4	6	6	5	5	5	3	4	4	4	4	5	[illegible]	5	4	3	3	3	7	2	24	3
26	2	2	2	2	3	2	3	3	4	4	4	4	3	3	3	3	4	3	[illegible]	3	3	3	3	3	4	2	24	3
27	2	2	2	2	2	2	3	###	###	3	4	4	3	3	3	3	3	3	[illegible]	3	3	3	3	3	4	2	22	3
28	2	2	2	2	2	2	2	3	3	3	3	3	2	3	3	3	3	3	[illegible]	3	2	3	3	3	3	2	24	3
29	2	1	1	1	2	2	2	2	3	4	5	###	###	3	4	3	4	4	[illegible]	3	2	3	3	3	5	1	22	3
30	2	2	2	3	3	3	3	5	12	7	6	6	4	###	3	1	1	4	[illegible]	1	4	3	3	3	12	2	23	3
MONTH TO DATE	3	3	2	2	2	2	2	3	4	4	4	4	3	3	3	3	3	3		3	3	3	3	3	12	0	611	3

95 PERCENTILE = 6 98 PERCENTILE = 7 99 PERCENTILE = [illegible]

DATA RECOVERY = 84.9 %

DAYS OF VALID DATA = 25

TABLE B1-9

```
*********************************************************************************************************************
 11136  31-OCT-82            AQMB  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
*********************************************************************************************************************
                                     FOR THE MONTH OF  SEPTEMBER  1982
STATION T6      75  RIVERSIDE  DRIVE - NORTH  VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                         H O U R
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    DAY   DAY #GOOD MEAN
                                                                                                         MAX   MIN AVE'S
   1     2   2   1   1   1   1   1   2   2   2   2   2   2   2   2 [illegible] 3 3 [illegible] [illegible] 3 2 2 2    4     1   24     2
   2     2   2   1   2   1   1   1 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    2     1    7     1#
   3   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
   4   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
   5   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
   6   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
   7   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
   8   ### ### ### ### ### ### ### ### ### ###   3   3   3   2   2   2   3   3 [illegible] 2 3 1 1 2    3     1   14     2#
   9     2   2   2   1 ###   2   4   4 ### ### ### ### ### ###   3   4   3   3 [illegible] 3 2 2 2 3    4     1   17     3#
  10     1   1   1   1   1   1   2   2   3   2   2   1   2   2   2   2   3   2 [illegible] 3 2 2 1 2    3     1   24     2
  11     2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2 [illegible] 1 1 1 1 1    2     1   24     1
  12     1   1   1   1   1   1   1   1   1   1   2   1   1   1   1   3   3   2 [illegible] 1 1 2 2 2    2     1   24     1
  13   ### ### ### ### ### ### ### ###   5   4   4   2   2   3   3   3   3   4 [illegible] 3 3 2 2 2    5     1   16     3#
  14     2   2   2   2   2   3   4 ### ###   4   5   3   2   2   2   3   3   2 [illegible] 3 3 2 2 2    5     2   22     3
  15     2   2   1   2   2   2   2   3 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    3     1    8     2#
  16   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###   ###    0   ###
  17     0   0   0   0   0   0   0   0   0   0 ###  12 ###  10  10   7   5   5 [illegible] 5 4 5 4 4   12     0   22     3
  18     3   3   3   2   2   2   2   3   2   4   7   8  10   6   6   6   6   7 [illegible] 5 4 4 4 4   10     2   24     5
  19     3   2   2   2   2   1   1   2   3   3   3   3   2   2   2   5   6   7 [illegible] ### 5 5 4 3    7     1   23     3
  20     2   2   2   1   1   1   3   2 ###   2   4   4   4   4   6   7   7   6 [illegible] 4 4 4 3 3    7     1   23     4
  21     2   2   2   2   2   3   3   3   3   4 ### ### ### ###   9   4   5   5 [illegible] 1 3 2 2 2    9     2   20     3
  22     2   2   1   1   1   1   1   2   3   5 ### ### ### ###   3   3   3   4 [illegible] 2 3 2 2 2    5     1   20     3
  23     1   1   2   1   1   1   2   2   4   8  12   9   6   5   4   6   6   4 [illegible] 1 4 3 3 2   12     1   24     4
  24     3   2   2   2   2   2   2   3   3   4   2   2   3   1   1   1   1   1 [illegible] ### 2 2 1 0    4     0   23     2
  25     1   1   1   1   1   1   1   1   2   2   2   2   3   1   1   0   0   2 [illegible] 3 2 0 0 0    4     0   24     1
  26     0   0   0   0   0   0   1   1   1   2   3   2   3   2   2   2   2   2 [illegible] 2 3 2 2 1    3     0   24     1
  27     1   1   1   1   1   1   2   1   2   4   4   4   3   2   2   3   3   3 [illegible] 3 3 2 2 1    4     1   24     2
  28     1   1   0   0   1   1   2   2   2   2   3   2   2   2   3   2   2   3   3   2   1   1   1   1    4     0   24     2
  29     1   1   1   1   1   1   2   1 ###   2   2   5   3   4   3   3   4   4   3   3 ###   2   2   2    5     1   22     2
  30     2   2   2   2   1   1   3   3   4   5   7   5   4   4   3   3   4   5   4   3   2   3   3   2    7     1   24     3
MONTH TO
 DATE    2   1   1   1   1   1   2   2   2   3   4   4   3   3   3   3   3   4 [illegible] 3 3 2 2 2   12     0  501     2#
95 PERCENTILE  =    6            98 PERCENTILE  =    7            99 PERCENTILE  =   [illegible]
DATA RECOVERY  =   69.6 %
DAYS OF VALID DATA  -  19
*********************************************************************************************************************
```

TABLE B1-9

```
*********************************************************************************************************
 11138  31-OCT-82           AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
*********************************************************************************************************
                              FOR THE MONTH OF  SEPTEMBER  1982
STATION T7     ANMORE  ELEMENTARY  SCHOOL - ANMORE
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                  H O U R                                               DAY  DAY #GOOD
 DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN
   1  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   2  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   3  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   4  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   5  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   6  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   7  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   8  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
   9  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  10  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  11  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  12  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  13  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  14  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  15  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  16  ### ### ### ### ### ### ### ### ### ###   6   5   5   6   4   3   1   1   1   1   1   1   1   1      6    1   14   3*
  17    1   1   1   1   0   1   1   1   1   3   3   4   4   3   4   5   4   3   3   3   2   1   1   1      5    0   24   2
  18    1   1   1   1   1   1   1   1   2   2   3   3   4   6   6   5   3   3   3   3   1   2   1   1      6    1   24   2
  19    1   1   1   1   1   1   1   1   1   1   1   3   2   2   1   3   3   3   3   3   2   1   1   1      3    1   24   1
  20    1   1   1   1   1   1   3 ### ###   3   3   2   2   3   5   5   6   5   5   4   3   3   1   1      6    1   22   3
  21    1   1   1   1   1   2   2   2   2   2   3   2   2   2   2   2   2   1   1   1   1   1   1   1      3    1   24   2
  22    1   1   0   0   0   0   0   1   1   3   3   4   2   3   3   3   4   3   3   1   1   1   1   1      4    0   24   2
  23    1   1   1   1   1   1   0   1   2 ###   5   8  12  11   7   6   3   3   3   2   1   1   1   1     12    0   23   3
  24    1   1   0   0   1   1   1   1   1   1   1   1 ###   2   1 ### ### ### ###   1   1   1 ###   1      2    0   18   1
  25    1   0   1   0   0   0   0 ###   0   1   1   1 ###   0   0   1   1   1   1   1   1   1 ###   1      1    0   21   1
  26    0   0   0 ### ### ### ### ### ###   2   2   3   2   3   2   2   1   2   2   1   1   1   0 ###      3    0   17   2*
  27    2 ###   1   1   1   1   1   1   2   2   5   4   3   3   5   3   2   5   3 ###   1   1   1   1      4    1   22   2
  28    1 ###   1 ### ###   1   1   1 ###   3   3   3   3   3 ###   1   1   1   1   1   1   1   1   1      3    1   19   1
  29    0   0   1   0   0   0   1   1   1   3   4   6   4   4   3   4   3   1   2   1   1   1   1 ###      6    0   23   2
  30    1   1   1   0   0   1   1   1   1 ### ###   4   4   5   6   4 ### ### ### ###   2   2   2   2      6    0   18   2
MONTH TO
 DATE   1   1   1   1   1   1   1   1   1   2   3   4   4   4   3   3   3   2 [illegible]   2   1   1   1   1     12    0  317   2*
95 PERCENTILE  =    5          98 PERCENTILE  =    6          99 PERCENTILE  =    8
DATA RECOVERY  =   44.0 %
DAYS OF VALID DATA  =  13
*********************************************************************************************************
```

TABLE B1-9

```
****************************************************************************************************************************
 11139  31-OCT-82            AQMB  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************************************
                                     FOR THE MONTH OF  SEPTEMBER  1982
STATION T8     LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 $  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                H O U R                                                 DAY  DAY #GOOD
 DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S MEAN
   1    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   2    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   3    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   4    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   5    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   6    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   7    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
   8    ### ### ### ### ### ### ### ###   2   3   2   2   3   2   2   2   3   2   3   2   2   2   2   2     3    2   16    2$
   9      1   1   2   2   1   1   1   0   1   1   1   1   1   1   1   1   1   1   2   2   2   2   2   1     2    0   24    1
  10      1   1   1   0   0   1   1   1   2   1   1   0   0   1   1   1   1   3   2   3   2   2   2   2     3    0   24    1
  11      2   2   1   1   1   1   1   2   2   2   3   2   2   2   2   2   3   3   3   3   2   2   2   1     3    1   24    2
  12      1   1   1   1   1   1   1   1   1   1   1   1   0   1   1   1   1   1   2   2   2   1   1   1     2    0   24    1
  13      1   1   1   1   1   1   1   1   1   2   1   0   1   1 ###   1   1   2   3   2   2   2   2   2     3    0   23    1
  14      2   1   1   2   1   1   3   2   2   3   2   1   1   1   1   1   1   2   3   2   2   2   2   2     3    1   24    2
  15      2   2   1   2   2   2   2 ###   5   6   9   0   4   4   3   2   3   2   3   4   3   3 ### ###     9    1   21    3
  16    ###   2   2   2   1   1   1   4   6   6   5   1   1   1   1   2   1   3   3   3   2   3   3   2     6    1   23    3
  17      3   3   1   2   1   2   2   4   6   8   7   4   4   2   3   4   4   3   5   4   3   4   4   3     8    1   24    4
  18      3   3   2   2   2   2   2   3   7   7   9   9   4   3   3   3   3   3   3   3   3   3   3   3     9    2   24    4
  19      3   3   2   2   2   2   2   3   7   7   9   3   3   3   3   5   5   4   5   4   5   5   4   5     9    2   24    4
  20      3   3   2   2   2   2   2 ###   3   3   4   6   4   3   2   3   3   3   4   4   4   4   4   3     6    2   23    3
  21      3   3   2   2   3   2   2   3   3   3   2   3   3   3   4   2   2   2   3   3   2   2   2   1     4    1   24    2
  22      1   2   1   1   2   1   1 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     2    1    7    1$
  23    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  24    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  25    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  26    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  27    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  28    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  29    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
  30    ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0  ###
MONTH TO
 DATE     2   2   2   2   2   1   2   2   4   4   4   3   2   2   2   2   2   3   3   3   3   3   2   2     9    0  329    2
95 PERCENTILE  =    6          98 PERCENTILE  =    7          99 PERCENTILE  =    7
DATA RECOVERY  =    45.7 %
DAYS OF VALID DATA  =  13
****************************************************************************************************************************
```

TABLE B1-9

```
**************************************************************************************************************************
 11:42  31-OCT-82           AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
**************************************************************************************************************************
                                     FOR THE MONTH OF  SEPTEMBER  1982
STATION T9      ROCKY  POINT  PARK - PORT  MOODY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                            H O U R
  DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY #GOOD
                                                                                                          MAX  MIN AVE'S MEAN
    1     1   1   1   1   0   0   0   1   2   3   3   2   3   2   2   2   2   2   1   5   4   3   3   2    5    0  24    2
    2     2   2   2   2   1   1   1   4   6   6   6   6   5   7   8   9   8   7   6   6   6   4   3   3    9    1  24    5
    3     3   3   2   1   1   1 *** ***   2   3   3   3   2   2   2   2   2   2   2   2   2   2   2   2    3    1  22    2
    4     2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0    2    0  24    1
    5     0   0   0   0   0   0   0   0   1   1   1   2   3   3   3   2   2   2   3   3   2   1   1   1    3    0  24    1
    6     1   1   1   1   1   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1    1    0  24    1
    7     1   1   1   1   0   0   0 ***   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1    1    0  23    1
    8     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   2    2    1  24    1
    9     2   2   1   1   1   1   1 ***   3   2   2   1   1   1   1   2   1   2   1   1   1   1   1   1    3    1  23    2
   10     1   1   1   1   0   0   0   1   2   2   2   1   1   1   1   1   1   2   2   2   2   1   1   2    2    0  24    1
   11     1   1   1   0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   2   1   1    2    0  24    1
   12     1   1   1   1   0   0   0   0   0   0   1   2   2   1   1   1   1   2   2   1   1   1   0   0    2    0  24    1
   13     1   1   1   1   0   0   1   1   2   1   3   4   4   2   2   1   1   2   3   2   1   1   1   1    4    0  24    2
   14     1   1   1   1   1   1   0   1   4   4   4   4   4   2   2   3   4   4   3   2   2   2   1   1    4    0  24    2
   15     1   1   1   1   1   1   0 ***   2   4   5   5   4   6   8   8   7   7   6   5   4   4   3   3    8    0  23    4
   16     2   2   1   1   1   1   0   2   4   6   6   6   7   7   5   3   3   6   6   3   3   3   2   2    7    0  24    3
   17     3   2   2   2   2   1   1   2   3   3   3   4   5   6   9   9   7   6   6   5   3   3   3   3    9    1  24    4
   18     3   3   2   2   2   1   1   2   3   2   4   5   5   7   8   6   5   5 [illegible] 5   5   4   4   3    8    1  24    4
   19     3   3   2   2   2   1   2   2   3   3   2   5   2   1   2   3   3   4 [illegible] 4   4   4   3   3    5    1  24    3
   20     2   2   2   1   2   1   1 ***   2   3   4   5   3   5   4   4   4   4   4   3   3   3   2   2    5    1  23    3
   21     2   2   2   1   1   2   2   2   2   2   2   2   2   2   2 [illegible] 3   2 [illegible] [illegible] 2   1   1   2    3    1  23    2
   22     2   1   1   1   1   1   0 ***   2   3   6   5   3   3   4 [illegible] 5   4 [illegible] [illegible] 2   1   1   1    6    0  23    3
   23     1   1   1   1   1   1   1   1   2   4   4   7  14   8   3 [illegible] 7 [illegible] [illegible] [illegible] 4   3   2   2   14    1  24    4
   24     2   1   1   1   1   1   1   1   1   1   2   3   3   3   3 [illegible] [illegible] 3 [illegible] [illegible] 2   2   2   2    4    1  24    2
   25     2   1   2   1   1   1   1   1   1   1   1   1   2   2   1   1   1   2 [illegible] 1   1   1   1   0    2    0  24    1
   26     0   1   1   1   1   1   1   0   1   1   1   2   2   2   2   2   2   3 [illegible] 2   1   1   1   0    3    0  24    1
   27     1   1   0   0   0   0   0 ***   1   2   2   2   2   2   2   2   2   3 [illegible] 3   1   2   2   2    3    0  23    2
   28     1   1   1   1   1   1   1   1   0   1   2   2   2   1   1   1   1   3   1   1   1   0   0   0    3    0  24    1
   29     1   1   1   1   1   1   0   1   2   3   5   2   7   3   4   4   4   3 [illegible] 2   1   1   1   1    7    0  24    2
   30     1   1   1   1   1   0   0 ***   3   4   4   3   3   4   5   5   4   4 [illegible] 2   2   2   1   1    5    0  23    3
MONTH TO
  DATE    1   1   1   1   1   1   1   1   2   2   3   3   3   3   3   3   3   3       3   2   2   2   2   14    0 711    2

95 PERCENTILE  =    6            98 PERCENTILE  =    7            99 PERCENTILE  =

DATA RECOVERY  =   98.8 %

DAYS OF VALID DATA  =  30
**************************************************************************************************************************
```

TABLE B1-9

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*******************************************************************************************************************
 11:44  31-OCT-82          AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
*******************************************************************************************************************
                                          FOR THE MONTH OF  SEPTEMBER  1982
STATION T10    3288  HASTINGS  STREET - PORT  COQUITLAM

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                        H O U R                                                DAY  DAY #GOOD
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN

   1   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   2   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   3   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   4   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   5   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   6   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   7   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   8   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
   9   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  10   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  11   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  15   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  16   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  17   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  18   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  19   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  20   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  21   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  22   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***    ***  ***   0   ***
  23   *** *** *** *** *** *** *** *** *** *** *** ***  13  17  18  17 ***  15  11   6   3   3   2   2     18    2  11   10#
  24     2   1   1   2   1   1   1   2   2   2   2   2 ***   2 ***   4   3   3   2   2   2   2   2   2      4    1  22    2
  25     1   2   1   1   1   1   1   2   2   2   2   2   2   1   1   1   1   2   3 ***   1   2   1   1      2    1  23    1
  26     1   1   1   1   1   1   1   1   2   2   2   3   4   4   4   4   4   4   3   3   1   1   1   1      4    1  24    2
  27     1   1   1   1   1   0   0   2   2   2   2   3   3   3   4   3   3   4   3   3   3   3   2 ***      4    0  23    2
  28   ***   1   1   1   1   1   1 ***   2   2   2   3   3   3   1   2   2   3   2   1   1   1   2   1      3    1  22    2
  29     1   2   2   2   1   1   1   1   3   4   4   5   8   6   0   0   0   0   1   2   2   1   0   1      8    0  24    2
  30     1   2   1   1   1   1   1   2   3   2   2   2   3   4   6   6   7   5   3   3   2   2   1   1      7    1  24    3
MONTH TO
  DATE   1   1   1   1   1   1   1   2   2   2   2   3   5   5   5   5   3   4   4   3   2   2   1   1     18    0 173    3#

 95 PERCENTILE  =    6           98 PERCENTILE  =   17           99 PERCENTILE  =   17

 DATA RECOVERY  =   24.0 %

 DAYS OF VALID DATA  =   7
*******************************************************************************************************************
```

TABLE B1-9

```
 11145  31-OCT-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT

                            FOR THE MONTH OF  SEPTEMBER  1982
 STATION T11    ABBOTSFORD AIRPORT (SITE 0310081) - ABBOTSFORD

 NITROGEN  DIOXIDE
 UNITS ARE PARTS PER MILLION
 ASSUMED DECIMAL XX.XX
 *** - INDICATES DATA UNAVAILABLE
  #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                   H O U R                                                    DAY  DAY #GOOD
 DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S  MEAN
    1   1   1   1   1   0   1   1   1   1   1   1   1   1   1   1   2   2   2   3   4   3   3   3   3     4    0    24     2
    2   2   2   1   1   1   1   1   1   1 *** ***   1   1   1   1   1   2   2   2   2   2   2   2   1     2    1    22     1
    3   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   1   1   2   2   1     2    1    24     1
    4   1   1   1   1   1   1   0   0   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1     1    0    24     1
    5   1   1   1   1   1   1   0   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   1     2    0    24     1
    6   1   1   1   1   1   1   0   1   0   1   1   1   1   1   1   1   1   1   2   2   2   2   1   1     2    0    24     1
    7   1   1   2   1   1   1   1 ***   1   1   1   1   1   1   1   1   1   1   2   2   1   2   2   1     2    1    23     1
    8   1   1   1   1   1   1   1   1   1 *** ***   1   1   1   1   1   1   1   2   2   3   3   1   1     3    1    22     1
    9   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   1   1   1   1   1   0   0   1     1    0    24     1
   10   1   1   0   1   1   1   1   1   1   1   1   0   0   0   0   0   1   1   1   1   1   1   1   1     1    0    24     1
   11   1   0   0   1   0   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1   1   1     2    0    24     1
   12   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1     1    1    24     1
   13   2   1   2   2   1   2   1   1   1   1   0   0   0   1   1   0   1   1   1   2   2   0   1   0     2    0    24     1
   14   0   0   0   0   0   1   1   1   1   0   0 *** *** *** *** *** *** *** *** *** *** *** *** ***     1    0    11    1#
   15 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   16 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   17 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   18 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   19 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   20 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***     0   ***
   21 *** *** *** *** *** *** *** *** *** ***   1   1   1   1   1   1   1   1   2   3   2   2   1   1     3    1    14    1#
   22   1   1 ***   1   1   1   1   1   1   1   1   1   1   1   1   2   2   1   2   2   2   1   1   1     2    1    23     1
   23   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   3   3   2   1   1     3    1    24     1
   24   2   1   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   1   1     2    1    24     2
   25   2   2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1   1   1     2    1    24     1
   26   1   1   1   1   1   1   1   1   1   1   1   0   1   1   1   1   1   1   1   1   1   1   1   1     1    0    24     1
   27   1   1   1   1   1   1   1   2   2   1   1   1   1   1   1   1   1   1   1   2   2   1   1   1     2    1    24     1
   28   1   1   1   1   1   1   1   1   1   1   1   0   1   0   1   1   1   1   1   1   1   2   1   1     2    0    24     1
   29   1   1   1   1   1   1   1   1   1   1 *** ***   0   0   0   0   1   2   2   3   3   2   2   1     3    0    22     1
   30   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   1   1   2   2     2    1    24     1
 MONTH TO
  DATE  1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   1   1     4    0   545     1

 95 PERCENTILE  =    2            98 PERCENTILE  =    3            99 PERCENTILE  =    3

 DATA RECOVERY  =   75.7 %

 DAYS OF VALID DATA  =  22
```

TABLE B1-9

```
##########################################################################################################################
 11147  31-OCT-82            AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
##########################################################################################################################
                                         FOR THE MONTH OF  SEPTEMBER  1982
STATION T12    CHILLIWACK AIRPORT (SITE 0310173) - CHILLIWACK

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                     H O U R                                              DAY  DAY #GOOD
 DATE      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN

   1       3   3   2   2   2   2   2   2   1   1   1   1   1   1   1   2   2   2   3   2   2   1   1   1     3    1  24     2
   2       0   1   1   1   1   1   1   1 ###   1   1   1   2   2   2   2   2   3   4   2   2   2   1   2     4    0  23     2
   3       2   2   0   0   0   0   0   0   1   1   2   2   2   2   3   3   3   3   3   3   3   3   3   3     3    0  24     2
   4       3   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   3   3   2   2   2     3    2  24     2
   5       2   2   2   2   2   1   1   1   1   1   1   2   2   2   2   2   2   2   3   2   2   2   1   2     3    1  24     2
   6       1   1   1   1   1   0   0   1   1   1   1   2   2   2   2   2   2   3   3   2   2   2   3   2     3    0  24     2
   7       1   2   2   2   2   2   2 ###   2   2   1   1   2   2   2   2   2   2   2   1   1   1   1   2     2    1  23     2
   8       2   2   2   2   2   2   2   2 ###   2   2   2   2   2   2   2   3   3   3   3   3   3   2   2     3    2  23     2
   9       2   2   2   2   2   2   2   2   4   5   4   4   4   4   2   2   3   3   3   3   3   2   2   2     5    2  24     3
  10       2   4   3   3   4   4   2   2   2   2   2   2   2   2   2   3   2   3   3   3   3   2   2   2     4    2  24     3
  11       2   4   3   4   4   4   2 ###   2   2   2   2   2   2   2   2   2   3   3   3   3   2   2   2     4    2  23     3
  12       4   5   5   5   2   2   2   2   2   2   2   2   2   2   2   2   2   2   3   4   3   2   2   2     5    2  24     2
  13       3   3   2   3   3   3   3   3   1   1   2   2   2   2   2   2   2   2   3   3   2   2   2 ###     3    1  23     2
  14       3   3   3   3   3   4   4   3 ### ###   1   2   2   2   2   2   2   3   4   2   1   1   2   2     4    1  22     3
  15       2   2   2   2   2   2   2   2   2   1   1   1   1   1   1   2   2   2   3   1   1   0   0   1     3    0  24     2
  16       1   1   1   1   1   2   1   1   1   1   1   1   2   2   2   2   3   3   5   3   3   3   2   2     5    1  24     2
  17       2   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   2   4   3   2   2   1   2   2     4    1  24     2
  18       2   2   2   2   1   1   2   1   1   1   1   1   1   2   2   2   2   4   4   3   2   2   2   2     4    1  24     2
  19       2   2   2   2   2   2   2   1   2   1   1   1   2   2   2   2   2   2   3   3   3   2   2   1     3    1  24     2
  20       1   1   1   1   1   2   2 ###   2   2   2   2   2   3   3   3   3   3   3   3   3   3   3   2     3    1  23     2
  21       2   2   2   2   2   2   2   2   2   2   2 ###   2   2   2   2   2   3   3   1   1   1   1   1     3    1  23     2
  22       0   0   0   0   0   0   0   0   1   1   1   1   2   2   2   2   3   3   4   2   1   0   0   0     4    0  24     1
  23       0   0   0   0   0   0   0   0   0   1   1   1   1   1   1   2   3   3   3   1   1   0   0   0     3    0  24     1
  24       0   0   0   1   1   2   1   1   1   1   1   1   2   2   2   2   2   2   3   2   2   2   2   1     2    0  24     1
  25       1   1   1   2   2   2   1   1   1   1   1   1   1   2   2   2   2   2   3   2   1   1   1   1     3    1  24     2
  26       2   2   2   2   2   1   1   1   1   1   1   1   1   1   2   2   2   3   3   3   3   2   1   1     3    1  24     2
  27       1   1   1   1   1   1   1   1   1   2   2   2   1   1   2   2   3   3   3   3   3   2   2   2     3    1  24     2
  28       2   1   1   1   1   1   2   2   2   2   2   1   2   2   2   2   2   3   3   2   1   2   2   1     3    1  24     2
  29       1   1   1   2   1   1   1   0   1 ###   1   1   1   1   1   1   1   2   2   2   2   1   1   2     2    0  23     1
  30       1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   3   2   1   1   1   1   1     3    1  24     1
MONTH TO
 DATE      2   2   2   2   2   2   2   1   1   2   2   2   2   2   2   2   2   3   3   2   2   2   2   2     5    0 710     2
95 PERCENTILE  =    3            98 PERCENTILE  =    4            99 PERCENTILE  =    4
DATA RECOVERY  =   98.6 %
DAYS OF VALID DATA  =  30
##########################################################################################################################
```

TABLE B1-9

T 14 S.F.U.
September 1982

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1			.. not available ..																									
2			.. not available ..																									
3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	16	16	27	23	20	16	12	12	12	10	27	12	16
4	15	8	1	4	11	14	9	9	3	4	6	8	4	2	2	4	7	7	7	11	9	2	2	5	24	15	1	6
5	5	5	4	13	11	9	5	11	5	9	14	13	17	20	20	15	15	9	8	12	17	25	22	7	24	25	4	12
6	21	16	8	17	11	10	4	3	15	7	8	10	11	15	15	12	10	10	10	15	11	21	15	4	24	21	3	12
7	2	2	5	5	4	4	6	6	6	8	6	10	9	7	8	7	1	1	3	11	13	16	8	3	24	16	1	6
8	1	4	7	7	5	10	10	13	17	14	14	10	10	6	8	8	6	6	14	13	15	20	15	5	24	20	1	10
9	3	3	3	4	0	0	9	20	16	8	12	6	2	2	7	10	7	5	6	7	16	18	2	2	24	20	0	7
10	7	11	3	4	12	8	12	7	13	15	5	5	5	5	9	7	4	5	12	19	11	7	8	9	24	19	3	8
11	15	7	9	10	7	7	7	8	11	10	17	10	12	12	9	11	16	13	10	12	13	22	25	16	24	25	7	12
12	11	12	11	11	4	5	2	1	1	6	6	12	10	8	9	9	10	10	12	8	13	7	6	4	24	13	1	8
13	15	9	16	17	4	6	7	7	4	15	15	25	17	15	18	6	5	7	6	18	12	15	10	5	24	25	4	11
14	8	3	5	12	11	2	3	2	4	7	26	31	36	21	20	20	24	21	9	5	[illegible]	4	9	1	24	36	0	12
15	0	4	1	3	3	10	4	13	20	cal	22	31	39	46	58	50	49	43	40	31	10	7	4	5	24	58	0	21
16	4	3	5	6	9	12	8	17	16	18	42	29	36	26	29	20	14	11	11	4	[illegible]	11	16	17	24	42	3	15
17	6	7	6	7	9	7	16	20	11	25	33	37	33	19	24	41	50	54	27	10	27	23	12	10	24	54	6	21
18	12	9	9	10	9	15	11	13	17	19	27	24	24	31	48	38	16	6	15	16	16	11	6	9	24	48	6	17
19	1	1	9	3	3	3	1	4	1	1	9	10	22	13	12	15	15	16	22	15	24	24	11	10	24	24	1	10
20	7	6	12	12	19	24	28	24	22	19	20	17	15	36	43	31	26	28	36	33	[illegible]	26	8	3	24	43	3	22
21	1	0	3	3	3	14	13	13	14	14	14	14	10	15	15	12	13	20	20	32	27	10	9	7	24	32	0	12
22	12	8	3	2	3	5	3	6	8	12	10	25	25	18	17	16	11	24	11	16	13	15	22	21	24	25	2	13
23	13	5	6	4	3	3	1	cal	9	9	26	64	81	68	43	41	31	15	3	13	11	4	8	1	23	81	1	20
24	0	1	4	1	8	1	2	19	15	11	5	5	11	6	7	11	16	23	23	22	14	9	7	5	24	23	0	9
25	12	8	18	8	13	11	9	13	14	17	18	18	15	17	6	6	6	6	13	15	12	3	4	4	24	18	3	11
26	0	11	0	2	3	3	3	3	1	3	11	15	20	15	15	14	14	18	19	14	[illegible]	9	12	6	24	20	0	9
27	10	8	6	4	6	6	5	7	6	10	10	12	25	25	22	17	16	10	14	14	14	[illegible]	9	9	24	25	4	11
28	8	9	3	5	18	10	10	11	12	16	18	19	21	30	39	33	30	9	5	5	6	3	2	2	24	39	2	13
29	3	5	4	3	2	2	1	1	2	3	8	13	20	41	54	33	18	13	17	18	[illegible]	16	7	9	24	54	1	13
30	4	4	3	4	1	3	5	12	2	8	8	cal	24	24	35	27	22	26	24	25	[illegible]	25	18	10	23	35	1	15

TABLE B1-9

T 15 Eagle Ridge
September 1982

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1			.. not available ..																									
2			.. not available ..																									
3			.. not available ..																									
4			.. not available ..																									
5			.. not available ..																									
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9			.. not available ..																									
10			.. not available ..																									
11			.. not available ..																									
12			.. not available ..																									
13			.. not available ..																									
14			.. not available ..																									
15			.. not available ..																									
16			.. not available ..																									
17			.. not available ..																									
18			.. not available ..																									
19			.. not available ..																									
20			.. not available ..																									
21			.. not available ..																									
22			.. not available ..																									
23			.. not available ..																									
24			.. not available ..																									
25			.. not available ..																									
26			.. not available ..																									
27			.. not available ..																									
28			.. not available ..																									
29			.. not available ..																									
30			.. not available ..																									

TABLE B1-9

```
***.***********************************************.....
 10:08  30-NOV-82            ADMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
******************************************************************************************************
                                   FOR THE MONTH OF  OCTOBER  1982

STATION T1     ROBSON SQUARE - ROBSON AND HORNBY - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
  * - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                   H O U R                                               DAY  DAY #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S MEAN

  1     3   3   2   2   2   2   2   3   4   3   3   3   3   4   4   4   3   3   2   2   3   3   2   2     4    2   24    3
  2     2   2   1   1   1   1   1   2   2   2   2   2   2   2   2   3   2   2   3   3   2   2   1   2     3    1   24    2
  3     1   1   1   1   1   1   1   1   1   1   2   2   2   2   2   3   2   2   2   1   1   1   1   1     3    1   24    2
  4     1   1   1   1   1   1   1   2   2   3   5   4   4   4   4   3   4   4   4   3   2   2   2   2     5    1   24    3
  5     2   2   2   2   1   2   2 ***   2   3   4   4   3   3   3   3   4   4   3   3   3   3   3   3     4    2   23    3
  6     3   2   2   2   2   2   2 ***   3   3   3   3   3   3   3   3   4   3   3   3   3   3   2   3     4    2   23    3
  7     2   2   2   2   2   2   3   3   3   3   3   3   2   3   2   3   4   3   3   3   3   3   1   1     3    1   24    3
  8     2   2   2   2   2   2   2   2   2 ***  ***   3   2   2   4   4   4   3   3   2   2   1   2   1     4    1   22    2
  9     1   1   1   1   1   1   1   1   2   3   3   3   3   2   2   2   2   2   2   2   2   2   1   1     3    1   24    2
 10     2   2   2   2   2   2   2   2   3   1   2   1   2   2   2   2   2   2   2   2   2   2   2   2     3    1   24    2
 11     2   1   1   1   2   2   1   1   1   2   2   1   1   1   1   1   1   1   1   1   1   2   1   1     2    1   24    1
 12     1   1   1   1   2   2   3   4   5   3   2   2   2   3   2   3   3   2   2   2   3   1   2   2     5    1   24    2
 13     2   2   2   2   3   3   4   4   7  10   7   5   4   4   4   3   4   3   3   3   3   2   3   3    10    2   24    4
 14     3   3   3   3   3   3   4   4   4  10  11   8   6   5   5   5   5   4   3   3   3   2   4   3    11    3   24    5
 15     3   4   4   3   2   2   3   3   3 ***  ***   8   5   5   6   6   4   4   4   4   4   3   4   3     8    2   22    4
 16     3   3   3   3   2   2   2   3   3   3   4   4   4   4   4   3   3   4   3   3   3   4   3   3     4    2   24    3
 17     3   3   3   3   2   2   2   2   2   3   4   3   3   3   2   3   3   4   3   2   2   3   1   1     4    1   24    3
 18     2   2   1   1   1   2   2   2   2   3   3   3   2   2   2   3   2   2   2   2   2   2   1   1     3    1   24    2
 19     1   1   1   2   2   2   2   5   5   6   6   4   3   3   2   3   6   2   2   2   2   1   2   2     6    2   24    3
 20     2   2   2   2   3   2   3 ***   7   6   6   9   7   4   4   4   3   5   4   3   3   2   3   2     9    2   24    4
 21     2   2   2   2   2   2   3   3   3   3   3   3   3   3   3   3   4   2   2   3   2   3   2   2     3    1   23    2
 22     2   1   1   1   1   1   2   2   2   2   3   2   2   3   3   3   3   3   3   2   2   2   2   2     4    2   24    2
 23     2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   3   2   2   2   2   2   2   2   2     3    1   24    2
 24     2   2   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2     3    2   23    2
 25     2   2   1   1   1   2   2 ***   3   3   2   3   2   2   2   2   2   2   2   2   2   2   2   1     3    1   24    2
 26     1   1   1   1   1   1   3   3   3   3   2   2   2   2   2   2   2   2   2   2   2   2   2   2     3    1   24    2
 27     2   2   2   1   2   2 *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     2    1    6    2*
 28   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 29   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 30   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 31   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
MONTH TO
 DATE   2   2   2   2   2   2   2   3   3   4   4   3   3   3   3   3   3   3   3   2   2   2   2   2    11    1  622    3

95 PERCENTILE  =    4          98 PERCENTILE  =    6          99 PERCENTILE  =    8

DATA RECOVERY  =   83.6 %

DAYS OF VALID DATA  =  26
******************************************************************************************************
```

TABLE B1-9

```
###########################################..............
10109  30-NOV-82          AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
#####################################################################################
                          FOR THE MONTH OF  OCTOBER  1982

STATION T2     2294  WEST  10TH  AVENUE - VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                  H O U R                                                      DAY   DAY #GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24      MAX   MIN AVE'S  MEAN

  1     3   3   3   3   3   3   3   4   4   2   3   3   2   2   3   4   3   3   3   3   3   3   3   3        4     2   24      3
  2     3 ###   1   1   1   1   1   1   1   1   1   1   1   1   2   1   1   2   2 ### ###   2   2   2        3     1   21      1
  3     2   2   2   1   1   1   1   1   2   2   2   1   2 ### ###   1   2   3   3   3 ###   2   2   2        3     1   21      2
  4     2   2   1   1   1   2   2   3   3   4   5   3   3   3   3   2   2   3   4   3   3   3   3   2        5     1   24      3
  5     2   2   2   2   2   2   2 ###   3   4   3   3   2   2   3   4   4   4   4   4   3   3   3   3        4     2   23      3
  6     2   2   2   1   1   1   2 ### ### ### ### ###   3   3   3   2   1   1   1 ###   3   3   1   2        3     1   18      2
  7   ###   2   1   1   2   1   2   3   3   3   2 ###   1   1   1   1   1   3   3 ###   1   1   1   1        3     1   21      2
  8     1   1   1   0   0   1   1 ###   2   2   2   2   2   2   3   2   2   2   2   2   2   1   1   1        3     0   23      2
  9     1   1   1   1   1   1   1   1   1   2   1   1   0   1   0 ###   1   1   2   2   2   2   2   1        2     0   23      1
 10     1   1   1   0   0   0   0   1   1   0   0   0   0   0   0   0   1   1   2   2   1   1   1   1        2     0   24      1
 11     1   1   0   1   0   0   0   1   2   1   1   0   0   0   0   0   0   1 ###   2   2   2   2   2        2     0   23      1
 12     2   2   2   2   2   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   3   2        3     1   24      2
 13     2   5   2   2   2   2   2   4   7   8   7   4   3   3   3   3   3   3   3   3   3   3   3   3        8     2   24      4
 14     2   3   2   2   2   2   3   4 ### ### ### ### ### ###   2   2   3   3   3   2   2   3 ###   4        4     2   17      3#
 15     3   3   2   2   2   2   2   3   4   2   2   2   3   3   3   2   2   2   2   2   1   1   1   1        4     1   24      2
 16     1   1   1   0   0   0   0   0   1   1   1   1   1   1   1   1   0   0   1   1   2   1   1 ###        1     0   23      1
 17     1   1   0   0   0   0   1   1   1   1   1   1   1   0   0   1   1   1   1   1   1   1   1   1        1     0   24      1
 18     1   1   1   1   1   1   1   1 ###   1   1   1   1   0   0   0   1   1   1   1   1 ###   1   1        2     0   22      1
 19     1   1   1   1   1   1   1   2   2   2   2   1   0 ###   1   1   1   1   2   2   2   2   2   2        2     0   23      1
 20     1   1   1   1   1   1   1   2   2   2   2   2   2   2   1   2   2   3   2   2   2   2   1   1        3     1   24      2
 21     1 ###   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   1   1   1   1   1        2     1   23      1
 22     1   0   0 ### ###   0   1   1   1   1   1   1   1   1   1   6   2   2   3   4 ###   3   2   2        6     0   21      2
 23     2   2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   1   1   2        2     1   24      1
 24     1   1   0   0   0   0   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   1   1        2     0   24      1
 25     1   1   1   1   1   1   2 ###   2   2   2   2   2   2   2   2   2   2   2   2   1   1   1   1        2     1   23      2
 26     1   0   0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   1   0 ###   0   0   0   0        1     0   23      1
 27     0   0   0   0   1   1   2   2   2   1   1   1   2   2   2   2   2   2   2   1   1   1   1   1        2     0   24      1
 28     0   0   0   0   0   0   1   1   1   1   1   1   2   1   1   1   1   1   2   2   2   1   1   1        2     0   24      1
 29     1   1   1   1   1   1   1   1   1   1   0   1   1   0   1   1   1   1   1   1   1   1   1   1        1     0   24      1
 30     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1        1     1   24      1
 31     1   1   1   1   1   1   1   0   0   0   1   1   1   1   1   1   1   1   1   1   1   0   0   0        1     0   24      1
MONTH TO
 DATE   1   1   1   1   1   1   1   2   2   2   2   2   1   1   2   2   2   2   2   2   2   2   2   2        8     0  708      2
95 PERCENTILE  =    3              98 PERCENTILE  =    4              99 PERCENTILE  =    4

DATA RECOVERY  =   95.2 %

DAYS OF VALID DATA  =  30
#####################################################################################
```

TABLE B1-9

```
**************************************************.........
 10110  30-NOV-82        AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
*************************************************************************************************************************
                                     FOR THE MONTH OF  OCTOBER  1982

STATION T3     MANITOBA  STREET  WORKS  YARD - VANCOUVER

NITROGEN DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                 H O U R                                             DAY   DAY #GOOD
DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX   MIN AVE'S  MEAN

   1   2   2   2   2   2   2   2   2   2   2   2   2   1   2   2   2   3   2   3   3   3   2   2   2     3     1    24     2
   2   2   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   2   2   2   2   2   2   2     2     1    24     1
   3   1   1   1   1   2   1   1   2   1   1   1   1   1   1   0   1   1   1   3   3   2   2   2   2     3     0    24     1
   4   2   2   2   2   2   2   2   1   3   3   2   2   2   2   2   2   2   3   3   2   3   3   1   2     3     1    24     2
   5   2   3   2   2   2   2   2   2   2   2   2   2   2   2   3   2   3   3   4   3   3   2   2   2     4     2    24     2
   6   2   2   1   1   1   1   2   2   2   2   2   3   2   2   2   1   2   2   2   2   2   1   1   1     3     1    24     2
   7   1   1   1   1   1   2   3   3   2   2   1   1   1   1   1   1   2   2   3   2   2   2   2   2     3     1    24     2
   8   2   2   2   1   2   2   2 ###   2   3   2   2   2   2   2   2   3   3   3   3   3   3   3   2     3     1    23     2
   9   1   1   1   1   1   1   1   1   2   2   1   1   1   1   2   2   2   2   2   1   1   1   1   1     2     1    24     1
  10   1   1   0   1   1   0   0   0   2   1   1   1   1   1   1   1   2   2   1   1   2   1   1   0     2     0    24     1
  11   0   1   1   1   1   0   0   1   2   2   1   1   1   1   1   1   1   1   1   0   0   0   0   0     2     0    24     1
  12   0   0   0   0   0   0   1   1   1   2   3   2   1 ### ### ### ### ### ### ### ### ### ### ###     3     0    13     1*
  13 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  14 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  15 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  16 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  17 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  18 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  19 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  20 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  21 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  22 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  23 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  24 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  25 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  26 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  27 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  28 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  29 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  30 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
  31 ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###   ###     0   ###
MONTH TO
 DATE  2   1   1   1   1   1   2   2   2   2   2   1   1   1   2   2   2   2   2   2   2   2   2   2     4     0   276     2*
95 PERCENTILE  =    3         98 PERCENTILE  =    3          99 PERCENTILE  =    3

DATA RECOVERY  =   37.1 %

DAYS OF VALID DATA  =  11
*************************************************************************************************************************
```

TABLE B1-9

```
*****************************************************
 10113  30-NOV-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
****************************************************************************************************
                             FOR THE MONTH OF  OCTOBER  1982
STATION T4      KENSINGTON  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL  XX.XX
### - INDICATES DATA UNAVAILABLE
  # - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                          H O U R
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    DAY  DAY #GOOD
                                                                                                        MAX  MIN AVE'S MEAN
  1     2   2   2   1   1   1   1   1   2 ###   2   2   2   2   2   2   3   3   2   2   2   2   2   2     3    1   23     2
  2     2   2   2   2   1   1   1   2   2   1   1   1   1   1   2   2   2   2   3   2   2   2   2   1     3    1   24     2
  3     1   1   1   1   1   1   1   1   2   1   2   2   2   2   2   2   2   2   2   2   2   1   1   1     2    1   24     2
  4     1   1   1   1   1   1   1   1   2   2   3   4   2 ###   2   2   2   4   4   2   2   2   2   2     4    1   23     2
  5     2   2   1   1   1   1   1 ###   2   2   2   2   2   1   2   3   2   2   2   2   2   1   2   2     3    1   23     2
  6     1   1   1   1   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   3   3   2     3    1   24     2
  7     2   2   1   1   1   2   2   1 ### ###   2   5   2   3   2   3   2   2   3   2   2   3   3   2     3    1   22     2
  8     1   1   1   1   1   1   1 ###   1   1   2   1   2   2   2   2   2   2 ###   2   2   2   1   1     3    1   22     2
  9     1   1   1   1   1   1   1   1   2   2   3   3   4   3   2   2   2   2   2   2   2   2   1   1     4    1   24     2
 10     1   1   1   1   0   0   1   1   1   3   4   4   3   3   2   3   2   2   2   2   3   2   2   1     4    0   24     2
 11     1   1   1   1   0   0   0   1   1   2   2   4   4   3   2   3   2   3 ###   3   3   3   5   2     4    0   23     2
 12     2   1   1   1   1   0   0   0   3   4 ###   9 ###  10   6   8   6   5   6   5   4   3   3   5    10    0   22     4
 13     1 ###   2   1   2   1   0   1   2   5   6  10 ###  10   9   8   7   6   5   5   4   4 ###   2    10    0   21     4
 14     2   1   1   1   2   1   1   2   3 ### ###  13  14  16  15  11   9   9   8   7   4   5   4   4    16    1   22     6
 15     3   3   2   2   2   1   0   1   2   3   3   4   4   3   4   4   4   4   3   2   6   1   1   1     4    0   24     2
 16     1   1   1   1   1   1   1   1   2   3   2   2   2   2   1   1   1   2   3   3   2 ###   2   3     3    1   23     2
 17     2   2   3   1   2   2   2   2   2   2   1   1   1   1   1   2   2   2   2   1   2   1   1   1     3    1   24     2
 18     1   1   1   0   1   0   0   0 ###   2   3   2   1   1   2   2   2   2   2   2   1   1   1   1     3    0   23     1
 19   ###   1   1   1   0   0   0   0   1   1 ###   3   5   4   3   2   2   2   4   2 ###   2   2   1     3    0   21     2
 20     2   2   1 ###   1   1   0 ### ### ### ### ### ###   0   0   2   2   4   2   2   3   2   1   1     5    0   17     3#
 21     1   1   1   1   1   1   2   2 ###   2   2   2   2   2   2   2   2   2   2   3   1   2   1   1     5    1   23     2
 22     1   1   1   1   1   1   1   2   1   2   2   2   1   1   1   2   2   2   1   2 ###   2   1 ###     3    1   22     2
 23     2   2   1   1   1   1   1   1   1   2   2   2   2   2   2   1   1   2   2   2   2   2   2   2     2    1   24     2
 24     2   2   1   1   1   1   1   2   1   2   2   2   2   2   1   2   2   1   2   2   1   2   1   1     2    1   24     1
 25     2   1   1   1   1   2   2 ###   2   2   2   1   2   2   2   1   1   1   1 ###   2   2   1   0     3    0   22     2
 26     1   1   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   1   1     3    1   24     2
 27     1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   2   1   1 ###     3    1   23     2
 28   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0   ###
 29   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0   ###
 30   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0   ###
 31   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###   ###  ###    0   ###
MONTH TO
 DATE   2   1   1   1   1   1   1   1   2   2   2   3   3   3   3   3   3   3   3   3   2   2   2   2    14    0  615     2

95 PERCENTILE  =     5            98 PERCENTILE  =     9            99 PERCENTILE  =    10

DATA RECOVERY  =   82.7 %

DAYS OF VALID DATA  =  26
****************************************************************************************************
```

TABLE B1-9

```
*********************************************************************************************************
 10114  30-NOV-82            AQMB  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
*********************************************************************************************************
                          FOR THE MONTH OF  OCTOBER  1982

STATION 15      CONFEDERATION  PARK - BURNABY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
  & - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                              H O U R                                                    DAY  DAY #GOOD
DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24    MAX  MIN AVE'S MEAN

  1    3   3   3   3   3   2   3   3   4   3   2   3   2   2   3   4   4   4   4   4   4   3   2   3      4    2   24    3
  2    3   2   2   2   1   2   2   2   3   2   2   2   2   2   2   2   2   3   4   4   3   3   3   2      4    1   24    2
  3   [illegible]                                                                                        3    1   24    2
  4   [illegible]                                                                                        5    1   24    3
  5   [illegible]                                                                                        3    1   23    2
  6   [illegible]                                                                                        2    1   11    2&
  7  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  8  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
  9  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 10  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 11  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 12  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 13  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 14  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 15  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 16  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 17  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 18  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 19  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 20  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 21  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 22  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 23  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 24  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 25  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 26  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 27  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 28  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 29  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 30  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
 31  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###    ###  ###    0  ###
MONTH TO
 DATE  2   2   2   2   2   2   2   2   3   3   3   2   2   2   2   3   3   3   3   3   3   2   2   2      5    1  130    2&

95 PERCENTILE  =    4            98 PERCENTILE  =    4          99 PERCENTILE  =    5

DATA RECOVERY  =   17.5 %

DAYS OF VALID DATA  =   5
*********************************************************************************************************
```

TABLE B1-9

```
*****************************************************************************************************************
10117  30-NOV-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************************************
                                  FOR THE MONTH OF  OCTOBER  1982
STATION T6     75  RIVERSIDE  DRIVE - NORTH  VANCOUVER
NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                    H O U R                                                    DAY  DAY  #GOOD
DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN  AVE'S  MEAN
  1  [illegible]                                                                                                      24    [illegible]
  2  [illegible]                                                                                                      24    [illegible]
  3  [illegible]                                                                                                      19    [illegible]
  4  [illegible]                                                                                                      24    [illegible]
  5  [illegible]                                                                                                      22    [illegible]
  6  [illegible]                                                                                                       7    [illegible]*
  7  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
  8  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
  9  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 10  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 11  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 12  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 13  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 14  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 15  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 16  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 17  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 18  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 19  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 20  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 21  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 22  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 23  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 24  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 25  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 26  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 27  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 28  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 29  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 30  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
 31  *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***     ***  ***    0    ***
MONTH TO
 DATE  2   2   1   1   1   2   2   2   4   4   4   3   3   3   2   3   3   4   3   2   2   2   1   1       8    0  120     2*
95 PERCENTILE  =    6             98 PERCENTILE  =    7             99 PERCENTILE  =    8
DATA RECOVERY  =   16.1 %
DAYS OF VALID DATA  =   5
*****************************************************************************************************************
```

TABLE B1-9

```
****************************************............
 10119  30-NOV-82          AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
************************************************************************************************************
                              FOR THE MONTH OF  OCTOBER  1982

STATION 17     ANMORE  ELEMENTARY  SCHOOL - ANMORE

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                   H O U R                                                  DAY   DAY  #GOOD
DATE   1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX   MIN  AVE'S  MEAN
  1    2   2   2   2   2   2   2   1   2   2   2   2   2   2   2   1   2   1   1   1   1   1   1   1       2     1    24     2
  2    1   2   1   1   1   1   1   2   2   1   1   1   1   1   1   1   2   1   1   1   1   1   1   1       2     1    24     1
  3    [illegible]
  4    [illegible]
  5    [illegible]
  6    [illegible]
  7    [illegible]
  8    [illegible]
  9    [illegible]
 10    [illegible]
 11    [illegible]
 12    [illegible]
 13    [illegible]
 14    [illegible]
 15    [illegible]
 16    [illegible]
 17    [illegible]
 18    [illegible]
 19    [illegible]
 20    [illegible]
 21    [illegible]
 22    [illegible]
 23    [illegible]
 24    [illegible]
 25    [illegible]
 26    [illegible]
 27  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###   ###     0   ###
 28  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###   ###     0   ###
 29  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###   ###     0   ###
 30  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###   ###     0   ###
 31  ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###
MONTH TO
 DATE  1   1   1   1   1   1   1   1   1   2   2   3   3   4   3   3   2   2   2   1   1   1   1   1      15     0   604     2
95 PERCENTILE  =    5             98 PERCENTILE  =    8             99 PERCENTILE  =   10

DATA RECOVERY  =   81.2 %

DAYS OF VALID DATA  =  26
************************************************************************************************************
```

TABLE B1-9

```
**************************************************************************************************************
10120  30-NOV-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
**************************************************************************************************************
                                   FOR THE MONTH OF  OCTOBER  1982

STATION T8      LIONS GATE SEWAGE TREATMENT PLANT-WEST VANCOUVER

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                                                                                  DAY  DAY  #GOOD
                                         H O U R
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  MAX  MIN  AVE'S MEAN

  1   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  2   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  3   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  4   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  5   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  6   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  7   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  8   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
  9   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 10   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 11   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 12   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 13   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 14   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 15   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 16   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 17   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 18   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 19   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 20   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 21   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 22   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 23   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 24   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 25   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 26   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 27   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###  ###  ###    0   ###
 28   ### ### ### ### ### ### ### ### ### ###   3   2   3   2   2   3   3   3   3   3   3   3   2   2    3    2   14    3#
 29     1   2   1   2   1   1   1   1   2   3   2   1   1   1   1   1   0   1   1   1   1   1   1   0    3    0   24    1
 30     0   0   1   1   1   1   1   1   1   2   2   2   3   3   3   3   4   3   3   3   2   3   2   2    4    0   24    2
 31     2   2   2   2   2   2   1   1   1   2   2   1   2   2   3   3   3   2   2   2   2   2   1   1    3    1   24    2
MONTH TO
 DATE   1   1   1   1   1   1   1   1   1   2   2   2   2   2   2   2   3   3   2   2   2   2   1   1    4    0   86    28

95 PERCENTILE  =     3              98 PERCENTILE  =     3              99 PERCENTILE  =     4

DATA RECOVERY  =   11.6 %

DAYS OF VALID DATA  =   3
**************************************************************************************************************
```

TABLE B1-9

```
*************************************************************
 10123  30-NOV-82          AQMS  MONTHLY  -   1  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************
                              FOR THE MONTH OF  OCTOBER  1982
STATION T9     ROCKY  POINT  PARK - PORT  MOODY

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL  XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
```

	H O U R																											
DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	DAY MAX	DAY MIN	#GOOD AVE'S	MEAN
1	1	1	1	1	1	1	0	0	2	3	2	2	2	1	1	2	4	3	3	3	3	2	2	2	4	0	24	2
2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	1	1	1	1	1	0	2	0	24	1
3	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	[illegible]	1	1	1	0	0	1	2	0	24	1
4	1	1	1	1	1	0	0	0	1	2	3	3	2	2	2	3	4	3	3	3	2	2	1	1	4	0	24	2
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]
7	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	###	2	###	0	[illegible]	[illegible]	0	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	21	[illegible]
9	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
10	[illegible]	0	0	0	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
12	[illegible]	[illegible]	2	4	[illegible]	[illegible]	5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
13	2	2	2	2	[illegible]	[illegible]	0	###	###	[illegible]	[illegible]	[illegible]	###	17	10	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	17	0	21	[illegible]
14	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	[illegible]	[illegible]	[illegible]	12	18	18	14	12	15	17	12	13	13	12	11	18	0	24	8
15	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	24	[illegible]
16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
18	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	0	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	23	[illegible]
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	###	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	10	10	10	10	9	9	10	1	23	6
20	7	7	[illegible]	[illegible]	[illegible]	[illegible]	10	1	[illegible]	[illegible]	7	10	12	10	10	10	[illegible]	[illegible]	[illegible]	8	4	6	5	5	12	1	24	7
21	3	3	2	2	3	[illegible]	7	10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	3	3	3	3	10	2	24	5
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	[illegible]	[illegible]	[illegible]	10	[illegible]	24	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
25	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	4	4	###	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	23	[illegible]
26	1	1	1	1	1	2	[illegible]	2	2	2	2	[illegible]	[illegible]	2	2	[illegible]	2	2	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	24	[illegible]
27	[illegible]	2	1	[illegible]	2	[illegible]	5	###	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	22	[illegible]
28	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	###	###	###	###	###	###	###	###	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	16	[illegible]#
29	[illegible]	[illegible]	2	2	2	[illegible]	1	1	1	[illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0	0	[illegible]	0	[illegible]	0	24	[illegible]
30	1	1	1	1	1	1	1	1	1	2	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2	2	2	2	2	[illegible]	1	24	2
31	2	2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	2	2	2	1	2	1	24	2
MONTH TO DATE	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4	4	4	3	3	3	3	2	18	0	723	3

```
95 PERCENTILE  =     9         98 PERCENTILE  =   11         99 PERCENTILE  =   13

DATA RECOVERY  =    97.2 %

DAYS OF VALID DATA  =  30
*****************************************************************************************
```

TABLE B1-9

```
*****************************************......
10:25  30-NOV-82          AGMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
*****************************************************************************************
                          FOR THE MONTH OF  OCTOBER  1982

STATION T10    3200  HASTINGS  STREET - PORT  COQUITLAM

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
*** - INDICATES DATA UNAVAILABLE
 *  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA
                                               H O U R                                                        DAY  DAY  GOOD
DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   MAX  MIN AVE'S MEAN

  1     1   1   1   1   1   1   1   1   1   2   2   2   1   1   0   0   1 *** ***   2   2   2   1   1     2    0   22    1
  2     1   1   1   1   1   1   1   2   2   2   2   2   2   2   2   3   2   2   2   1   2   2   1   1     3    1   24    2
  3     0   0   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   1     1    0   24    1
  4     1   1   1   1   1   1   1   1   1   2   1   2   2   2   2   3   3   4   3   2   2   2   1   2     4    1   24    2
  5     2   1   1   1   2   1   1 ***   2   1   1   1   1   1   1   1   1   1   1   2   1   1   1   1     2    1   23    1
  6     1   1   1   1   1   1   1 ***   2   1   1   1   2   2   2   2   3   3   2   2   1   1   1   1     3    1   23    1
  7     1   2   1   1   0   1   1   1 ***   3   3   3   3   1   3   4   5   4   2   2   2   1   1   1     5    0   23    2
  8     1   1   1   1   1   1   1 ***   1   1   1   1   1   1   1   3   2   2   2   1   2   1   1   1     3    1   23    1
  9     1   1   1   1   1   2   1   1   2   2   3   4   4   4   6   6   5   4   4   3   2   2   2   2     6    1   24    3
 10     2   2   2   1   1   2   1   2   3   3   2   4   5   4   2 ***   0   0   1   3   3   3   2   2     5    0   23    2
 11     2   2   2   2   2   2   2   2   2   4   3   4 *** *** *** *** *** *** *** *** *** *** *** ***     4    2   12    2*
 12   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 13   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 14   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 15   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 16   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 17   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 18   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 19   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 20   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 21   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 22   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 23   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 24   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 25   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 26   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 27   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 28   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 29   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 30   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***    0  ***
 31   *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** ***   ***  ***
MONTH TO
 DATE   1   1   1   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   2   2   2   2   1   1     6    0  245    2*
95 PERCENTILE  =    4           98 PERCENTILE  =    5          99 PERCENTILE  =    6
DATA RECOVERY  =   32.9 %
DAYS OF VALID DATA  =  10
*****************************************************************************************
```

TABLE B1-9

```
##############################################################################################################################
 10127  30-NOV-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
##############################################################################################################################
                                 FOR THE MONTH OF  OCTOBER  1982
STATION T11    ABBOTSFORD AIRPORT (SITE 0310081) - ABBOTSFORD

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
### - INDICATES DATA UNAVAILABLE
 #  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                  H O U R                                                   DAY  DAY #GOOD
 DATE    1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24     MAX  MIN AVE'S MEAN
   1     1   1   1   1   1   1   1   1   1   1   1   1   2   1   1   1   1   1   1   1   1   1   1   2       2    1   24    1
   2     2   2   1   1   1   0   1   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   1       2    0   24    1
   3     1   1   1   1   1   0   0   1   1   0   1   1   1   0   0   0   0   1   2   1   1   1   1   1       2    0   24    1
   4     1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   1   1   1   2   1   1   2   1       2    0   24    1
   5     1   1   1   1   1   1   1 ###   1   1   1   1   1   1   1   1   1   2   2   2   2   2   1   1       2    1   23    1
   6     1   1   1   1   1   1   1 ###   1   1 ### ### ###   1   1   1   0   1   0   0   0   0   0   0       1    0   20    1
   7     0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0   1   1   1   2   2   2   2       2    0   24    1
   8     1   1   1   1   1   1   1 ###   1   1 ### ###   0   0   0   0   1   2   2   2   2   1   1   1       2    0   21    1
   9     1   1   1   1   1   1   1   1   1   0   0   0   0   0   0   0   1   2   2   2   1   1   1   1       2    0   24    1
  10     1   1   1   1   1   1   1   1   0   0   0   0   0   0   0   0   1   1   2   1   1   1   1   1       2    0   24    1
  11     1   1   1   1   1   0   0   1   1   0   0   0   0   1   1   1   1   2   2   1   1   1   1   1       2    0   24    1
  12     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   3   1   1   1   1   1       3    1   24    1
  13     1   1   1   1   1   1   1   1   1   1   1   1 ###   1   1   1   2   2   3   3   3   2   1   1       3    1   23    1
  14     1   1   1   1   1   1   1   1   2 ### ###   1   1   1   1   2   2   3   3   3   2   2   1   1       3    1   22    2
  15     1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1   1   1   1   1   2   2   1   1       2    1   24    1
  16     1   1   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   1   0   0   0   0   0   0       1    0   24    0
  17     1   1   0   0   0   0   0   1   1   1   0   0   0   0   0   0   0   1   1   1   1   1   1   1       1    0   24    1
  18     1   1   1   1   1   1   1   2 ###   0   0   0   0   0   0   0   0   1   1   1   1   1   1   1       2    0   23    1
  19     1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   1   2   2   2   2   2   1   2   1       2    0   24    1
  20     1   1   1   1   1   1   1   0   0   0   1   1   1   1   1   1   2   2   2   2   2   2   1   1       2    0   24    1
  21     0   0   0   0   0   0   1   1   2   2   1   2   2   1   1   2   2   2   2   2   1   1   1   1       2    0   24    1
  22     0   0   0   0   0   0   0 ### ### ### ### ### ### ### ### ### ###   2   1   1   3   2   1   1       3    0   14    1#
  23     1   1   1   1   1   1   1   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0       2    0   24    1
  24     0   0   0   0   0   0   0   0   0   0   0   0   1   2   1   1   1   1   1   1   1   1   1   1       2    0   24    1
  25     0   0   0   0   0   1   1 ###   1   1   1   1   1   1   2   1   1   1   1   2   1   0 ### ###       2    0   21    1
  26   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
  27   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
  28   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
  29   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
  30   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
  31   ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ### ###     ###  ###    0  ###
MONTH TO
 DATE    1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   1   1   1   1   1       3    0  575    1
95 PERCENTILE  =     2              98 PERCENTILE  =     2              99 PERCENTILE  =     3
DATA RECOVERY  =    77.3 %
DAYS OF VALID DATA  =  24
##############################################################################################################################
```

TABLE B1-9

```
***************************************************************************************************************
 10128  30-NOV-82          AQMS  MONTHLY  -  1  HOUR  AVERAGES  -  SUMMARY  REPORT
***************************************************************************************************************
                                   FOR THE MONTH OF  OCTOBER  1982
STATION T12    CHILLIWACK AIRPORT (SITE 0310173) - CHILLIWACK

NITROGEN  DIOXIDE
UNITS ARE PARTS PER MILLION
ASSUMED DECIMAL XX.XX
$$$ - INDICATES DATA UNAVAILABLE
 $  - MEAN BASED ON LESS THAN 75 % OF AVAILABLE DATA

                                                H O U R
DATE     1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24   DAY  DAY #VALID
                                                                                                        MAX  MIN AVE'S  MEAN
   1     0   0   0   0   0   0   0   0   0   1   1   1   1   2   2   3   3   3   4   3   3   3   3   3     4    0   24     2
   2     2   3   2   2   2   2   2   1   1   1   1   1   1   1   1   1   2   2   2   3   3   2   3   2     3    1   24     2
   3     2   3   3   2   1   3   1   1   1   1   1   1   1   2   2   2   2   2   3   2   2   2   3   1     3    1   24     2
   4     1   1   2   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1   2   2   2   1   1     3    1   24     1
   5     1   1   1   1   1   1   1 $$$   1   1 $$$ $$$   1   1   1   2   2   2   1   2   2   2   1   1     3    1   21     1
   6     2   2   1   1 $$$   2   2 $$$   1   1   2   2   2   2   2   2   2   2   1   2   2   2   2   1     3    1   22     2
   7     1   1   1   1   1   1   2   2   1   1   1   1   1   2   2   2   2   2   2   2   2   2   2   3     3    1   24     2
   8     2   2   2   2   2   2   2   1 $$$ $$$   1   1   1   1   1   2   2   2   1   2   2   2   2   2     3    1   22     2
   9     2   2   1   2   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1   1   1   0   2   1     3    0   24     2
  10     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   1   1   1   1   1   1     3    1   24     1
  11     0   0   1   0   1   1   1   0   1   1   1   1   1   1   1   2   2   2   1   1   1   1   1   1     3    0   24     1
  12     0   0   0   0   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   0   0   0   0   0     3    0   24     1
  13     1   1   1   1   1   1   1   1   1   1   1   1 $$$   2   2   2   2   2   2   1   1   1   1   1     3    1   23     1
  14     1   1   1   0   0   0   0   0 $$$   1   1   1   1   1   1   2   2   2   2   1   1   2   1   1     3    0   23     1
  15     0   0   0   0   0   0   0   0   0   0   1   1   1   1   2   2   1   2   1   1   0   0   0   0     3    0   24     1
  16     2   1   1   1   1   2   2   2   2   2   2   2   2   1   2   1   2   1   1   2   2   2   2   2     3    1   24     1
  17     1   1   1   1   1   1   2   2   2   1   1   1   1   1   1   1   1   1   1   2   2   2   2   1     2    1   24     2
  18     1   1   1   1   1   1   2   2 $$$   1   1   1   1   1   1   1   1   2   2   1   1   0   1   1     2    0   23     1
  19     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   1   1   1   1   1     2    1   24     1
  20     1   1   1   1   1   1   2   1   1   1   1   1   1   1   1   1   2   2   2   2   2   1   2   1     2    1   24     1
  21     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   2   2   1   2   2   1   1     2    1   24     1
  22     1   1   2   1   1   1   1   2 $$$   1   1   1   1   1   1   2   2   1   2   2   1   2   1   1     2    1   23     1
  23     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   1   2   1   2   2   1     2    1   24     1
  24     1   1   2   2   1   1   1   1   1   1   1   1   1   1   2   2   1   1   1   2 $$$   2   1   2     2    1   23     1
  25     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   1     2    1   24     1
  26     2   1   1   1   1   2   2 $$$ $$$   2   2   2   2   2   1   1   2   1   2   1   2   2   1   1     2    1   22     1
  27     1   1   2   1   1   1   2   2   1   2   2   2   1   1   2   2   2   2   1   1   1   1   1   1     2    1   24     2
  28     2   2   2   1   1   2   2   2   2   2   2   2   1   1   2   2   2   2   1   2   1   2   1   1     2    1   24     2
  29     2   1   1   1   1   1   2   2   1   1   1   1   1   1   1   2   2   2   1   2   2   1   1   2     2    1   24     1
  30     0   0   0   0   1   1   1   1   0   0   1   1   1   2   2   2   2   2   2   1   0   0   0   0     2    0   24     1
  31     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   1   1   1   1   1   1   1     2    1   24     1
MONTH TO
 DATE    1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   2   2   2   2   2   2   1   1   1     4    0  730     1
95 PERCENTILE  =    3          98 PERCENTILE  =    3          99 PERCENTILE  =    3
DATA RECOVERY  =   98.1 %
DAYS OF VALID DATA  =  31
***************************************************************************************************************
```

TABLE B1-9

T 14 S.F.U.
October 1982

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	2J	23	24	n	max	min	mean
1	10	8	6	10	13	6	12	4	11	18	9	13	9	12	9	13	16	14	9	16	6	2	5	9	24	18	2	10
2	10	10	8	7	4	3	1	6	8	5	3	2	2	2	3	8	7	12	25	20	26	27	23	13	24	27	1	10
3	22	23	8	7	14	8	5	2	5	6	5	5	5	5	5	5	8	13	9	4	NA	NA	NA	NA	20	23	2	8
4			.. not available ..																									
5			.. not available ..																									
6			.. not available ..																									
7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	cal	7	7	11	10	21	26	23	18	18	19	18	10	12	26	7	15
8	9	8	7	7	15	13	7	12	12	11	10	6	9	10	11	26	27	26	40	39	25	7	4	4	24	40	4	14
9	5	8	8	12	4	3	7	13	10	9	8	7	32	39	33	25	9	11	10	19	22	19	11	11	24	39	3	14
10	6	6	3	4	4	4	4	3	4	4	9	26	46	37	22	25	35	17	20	27	24	20	15	21	24	46	3	16
11	16	14	12	14	11	14	14	14	14	14	20	35	35	45	31	20	25	44	44	32	32	31	32	33	24	45	11	24
12	13	13	17	19	19	7	7	13	18	18	26	42	cal	111	121	109	84	63	93	61	19	13	16	20	23	121	7	39
13	11	13	15	12	12	11	11	11	18	15	27	45	61	129	98	81	84	79	83	67	40	25	13	22	24	129	11	40
14	14	24	27	38	21	16	12	16	15	17	41	64	81	105	123	141	140	103	84	38	29	16	7	9	24	141	7	48
15	14	[illegible]	[illegible]	10	8	8	8	17	18	20	13	24	33	27	35	44	49	47	28	11	10	12	12	12	24	49	8	20
16	14	19	13	12	9	11	11	14	14	20	12	15	16	18	17	13	12	12	15	21	17	17	11	8	24	21	8	14
17	15	21	19	20	13	10	8	5	13	9	9	8	6	4	5	9	10	11	12	10	8	8	16	16	24.	21	4	11
18	15	15	11	7	5	3	4	4	5	10	22	29	32	17	16	20	20	20	19	13	14	14	14	10	24	32	3	14
19	12	12	8	6	9	15	20	16	15	16	16	26	41	60	46	25	18	27	38	31	21	12	13	20	24	60	6	22
20	17	12	12	9	10	7	7	6	1	2	7	39	50	51	58	53	45	22	11	11	10	15	9	9	24	58	1	19
21	13	9	9	7	11	11	12	12	10	12	17	7	11	2	4	15	11	10	4	4	4	4	4	4	24	17	2	9
22	4	4	4	4	5	5	4	8	11	13	15	12	12	12	10	11	11	12	11	15	16	19	19	17	24	19	4	11
23	14	11	6	4	4	7	4	6	7	7	8	11	11	13	10	11	11	11	11	10	10	10	5	6	24	14	4	9
24	7	6	2	3	3	7	7	8	5	5	5	8	8	8	8	6	12	11	12	3	6	7	7	7	24	12	2	7
25	6	6	13	5	5	6	6	9	8	7	6	7	6	cal	5	3	12	9	8	6	4	8	3	3	23	13	3	7
26	3	1	1	3	2	4	4	7	13	12	14	11	11	11	10	8	8	7	7	7	8	8	12	7	24	14	1	7
27	2	3	5	2	1	1	5	16	24	23	21	18	13	12	14	16	17	17	12	13	12	13	10	10	24	24	1	12
28	9	9	7	6	6	6	10	14	16	12	15	13	15	15	22	22	16	18	18	9	6	5	3	5	24	22	3	11
29	6	2	1	1	1	10	3	6	6	7	14	25	35	24	15	19	18	13	10	21	28	23	15	9	24	35	1	13
30	20	20	19	13	12	9	10	9	17	11	12	15	23	23	20	29	27	28	21	10	13	4	10	12	24	29	4	16
31	9	8	1	1	2	12	9	3	3	4	4	5	8	25	29	14	9	9	8	7	7	7	4	3	24	29	1	8

Table B1-9

T 15 Eagle Ridge
October 1982

POLLUTANT: Nitrogen Dioxide (ppm X 1000)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	n	max	min	mean
1			.. not available ..																									
2			.. not available ..																									
3			.. not available ..																									
4			.. not available ..																									
5			.. not available ..																									
6			.. not available ..																									
7			.. not available ..																									
8			.. not available ..																									
9			.. not available ..																									
10			.. not available ..																									
11			.. not available ..																									
12			.. not available ..																									
13			.. not available ..																									
14			.. not available ..																									
15			.. not available ..																									
16			.. not available ..																									
17			.. not available ..																									
18			.. not available ..																									
19			.. not available ..																									
20			.. not available ..																									
21	NA	NA	NA	NA	NA	NA	NA	NA	35	30	31	37	35	33	32	23	29	31	32	29	29	31	33	19	16	37	19	30
22	8	5	5	6	6	6	12	12	10	12	11	11	12	13	16	21	29	32	24	24	22	18	21	21	24	32	5	15
23	19	11	9	10	16	19	24	12	10	22	17	15	13	13	16	18	16	13	13	16	17	10	11	20	24	24	9	15
24	18	16	7	7	9	7	7	8	18	9	16	20	16	9	8	17	29	26	25	24	23	22	23	23	24	29	7	16
25	23	17	17	13	13	22	27	37	37	21	10	19	25	28	28	24	21	14	23	24	16	10	7	7	24	37	7	20
26	6	6	6	7	6	7	12	20	14	13	15	18	18	18	17	13	15	14	16	13	20	17	13	13	24	20	6	13
27	13	14	12	10	12	16	26	37	26	31	30	20	cal	17	16	12	20	21	20	12	13	12	8	4	23	37	4	17
28	6	4	3	4	4	4	5	17	18	22	17	8	14	19	17	18	19	20	23	18	13	15	12	6	24	23	3	13
29	6	10	16	15	15	12	12	11	14	19	25	35	29	38	37	29	17	18	24	24	10	9	11	9	24	38	6	18
30	10	13	13	11	10	9	9	8	9	13	13	13	17	20	24	24	24	26	33	26	27	22	17	15	24	32	8	17
31	13	13	16	17	20	12	12	13	10	7	6	5	5	8	12	14	14	13	15	16	16	16	18	13	24	20	5	13

APPENDIX B2

COMPARISON OF NO_2 DATA DURING BTGP OPERATIONAL AND NON-OPERATIONAL PERIODS

APPENDIX B2

COMPARISON OF NO_2 DATA DURING BTGP OPERATIONAL AND NON-OPERATIONAL PERIODS

B2.1 FIGURES AND TABLES

Table B2-1 Comparison of Elevated NO_2 Concentrations During Powerplant Operational and Non-operational Periods

Table B2-2 NO_2 Recorded at GVRD Stations, 15 to 19 September 1980 - BTGP Non-operational

Table B2-3 NO_2 Recorded at GVRD Stations, 22 to 26 September 1980 - BTGP Operational

Table B2-4 NO_2 Recorded at GVRD Stations, 29 September to 2 October 1980 - BTGP Non-operational

Table B2-5 NO_2 Recorded at GVRD Stations, 3 to 10 October 1980 - BTGP Operational

Table B2-6 NO_2 Recorded at GVRD Stations, 13 to 17 October 1980 - BTGP Non-operational

Table B2-7 NO_2 Recorded at GVRD Stations, 20 to 24 October 1980 - BTGP Operational

Table B2-8 NO_2 Recorded at GVRD Stations, 27 to 31 October 1980 - BTGP Non-operational

Methodology

(a) Plant Operation

One to three units were put into operation on alternate weeks (Table B1-1), beginning on 22 September 1980 and ending on 24 October 1980. The powerplant was in operation 3 to 7 October because of a stagnation study.

(b) Air Quality Monitoring

One hour averages of NO_2 (ppm) were acquired from the GVRD air quality monitoring network in order to compare maximum concentrations during BTGP operational and non-operational periods (Tables B2-2 to B2-8).

(c) Meteorology

Synoptic surface and upper air charts and hourly weather reports for September and October 1980 were reviewed. A description of the weather patterns and significant changes which occurred during the study period was prepared from this information:

Summary of Weather Patterns - 15 September to 31 October 1980

(a) 15 to 19 September

A ridge of high pressure over the Eastern Pacific slowly weakened and this allowed frontal systems, accompanied by cloud and rain, to move over the southern B.C. coast on the 18th and 19th.

(b) 22 to 26 September

A weak frontal system moved across the province on the 22nd and, following this, a ridge of high pressure developed over B.C. As a result, skies began to clear over the study area on the 23rd.

From the 24th to 26th, skies remained clear except for some high thin clouds and morning fog patches. Winds were light easterly, except during the afternoons when they shifted to the west.

(c) 29 September to 2 October

The ridge weakened temporarily on the 29th as a frontal system moved across the southern B.C. coast. Behind this, the ridge rebuilt over B.C. Skies cleared over the study site on the 30th and remained so for the rest of the week. Winds were light easterly except during the afternoons when they shifted to the west.

(d) 3 to 10 October

A strong upper ridge persisted over B.C. and Alberta during most of this period. Over the study area skies were mainly clear, except for some high thin clouds and morning fog patches. Winds were light and variable.

(e) 13 to 17 October

The strong upper ridge was now moving slowly eastward over the Prairies. An upper trough moved across B.C. on the 13th and 14th and was followed by weak ridging. Only scattered clouds and light winds were reported over the study site from the 14th to 16th.

(f) 20 to 24 October

A frontal system moved across B.C. on the 20th, with a ridge moving over the area on the 22nd and 23rd. Mostly clear skies and light winds on the 22nd and 23rd were followed by increasing clouds and showers on the 24th as a frontal system approached the coast.

(g) 27 to 31 October

A ridge of high pressure over southern B.C. resulted in clearing over the study area on the 28th. Clouds increased after this as a slow moving frontal system approached the coast.

Observations from Data

An examination of Table B2-1 and the daily meteorological descriptions results shows that:

1. Highest concentrations were all recorded in similar meteorological conditions: light winds, clear skies, stable air mass.
2. Daily 1-hour maximums ≤ .100 ppm were recorded at all stations only once, 2 October, a non-operational day (Table B2-4).
3. Daily 1-hour maximums ≤ .100 ppm on 25 September at T6 and 26 September at T4, T5, T6 occurred with southwest winds, or upwind from the BTGP (Table B2-3).
4. At T7, situated northeast of BTGP, maximums occurred most frequently with southwest winds. However, highest readings were measured during nonoperational periods (2 and 28 October).

TABLE B2-1

COMPARISON OF ELEVATED NO_2 CONCENTRATIONS DURING POWERPLANT OPERATIONAL AND NON-OPERATIONAL PERIODS

		1-Hour Maximum NO_2 (ppm) $\leq$ 0.10 ppm at GVRD Monitoring Stations					
Operational Periods	Non-operational Periods	T4	T5	T6	T7	T9	T10
25 Sep 1980		<0.10	<0.10	0.102	<0.10	<0.10	<0.10
26 Sep 1980		0.130	<0.10	0.139	<0.10	0.103	0.166
	2 Oct 1980	0.142	0.135	0.176	0.174	0.156	0.126
3 Oct 1980		<0.10	<0.10	0.120	<0.10	<0.10	<0.10
5 Oct 1980		0.120	0.100	0.100	<0.10	0.114	<0.10
10 Oct 1980		0.121	0.157	0.152	<0.10	0.112	0.128
23 Oct 1980		<0.10	0.100	0.185	<0.10	<0.10	<0.10
	28 Oct 1980	<0.10	0.112	<0.10	0.116	<0.10	<0.10

TABLE B2-2

NO_2 RECORDED AT GVRD STATIONS
15 TO 19 SEPTEMBER 1980 - BTGP NON-OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
15 Sept	T4	.051	.031	20	0/0
	T5	N/A	N/A		
	T6	.072	.030	10	237/3
	T7	.066	.021	10	228/2
	T9	N/A	N/A		
	T10	.071	.033	12	297/7
16 Sept	T4	.043	.026	09	0/1
	T5	N/A	N/A		
	T6	.087	.035	18	0/1
	T7	.044	.023	18	0/0
	T9	.050	.032	19	0/1
	T10	.054	.025	18	167/2
17 Sept	T4	.038	.027	19	039/3
	T5	N/A	N/A		
	T6	.047	.022	09	103/2
	T7	.039	.022	09	248/3
	T9	.037	.021	19	0/0
	T10	.044	.018	17	206/4
18 Sept	T4	.043	.028	11	180/4
	T5	N/A	N/A		
	T6	.065	.029	12	0/1
	T7	.081	.031	12	0/0
	T9	.041	.024	11	0/0
	T10	.036	.021	18	0/1
19 Sept	T4	.028	.017	19	193/3
	T5	N/A	N/A		
	T6	.034	.024	08	105/7
	T7	.026	.019	12	141/4
	T9	.025	.018	18	120/3
	T10	.023	.015	17	131/2

TABLE B2-3

NO_2 RECORDED AT GVRD STATIONS
22 TO 26 SEPTEMBER 1980 - BTGP OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
22 Sept	T4	.025	.016	21	0/0
	T5	N/A	N/A		
	T6	.022	.013	17	167/3
	T7	.033	.017	17	0/0
	T9	.027	.016	18	240/8
	T10	.025	.011	18	208/2
23 Sept	T4	.029	.020	12	175/2
	T5	N/A	N/A		
	T6	.032	.014	13	253/7
	T7	.069	.023	15	228/2
	T9	.035	.019	15	319/9
	T10	.040	.017	17	283/5
24 Sept	T4	.040	.021	12	284/6
	T5	N/A	N/A		
	T6	.042	.017	19	N/A
	T7	.052	.019	13	240/5
	T9	.034	.019	19	0/1
	T10	.053	.017	13	N/A
25 Sept	T4	.082	.035	10	0/0
	T5	N/A	N/A		
	T6	.102	.034	11	215/3
* N/A	T7	.078*	.021*	11	225/2
aft. 11 PST	T9	.071	.033	12	335/7 (13 PST)
	T10	.094	.034	13	290/3
					246/4 (15 PST)
26 Sept	T4	.130	.056	16	238/2 (17 PST)
*N/A	T5	.097*	.080*	17	255/3 (15 PST)
01-13 PST	T6	.139	.056	10	198/2 (12 PST)
	T7	N/A	N/A		
	T9	.103	.053	18	322/6 (17 PST)
	T10	.166	.051	17	301/3

TABLE B2-4

NO$_2$ RECORDED AT GVRD STATIONS 29 SEPTEMBER 1980 TO 2 OCTOBER 1980 - BTGP NON-OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
29 Sept	T4	.025	.018	16	144/3
	T5	.039	.028	16	095/6
	T6	.046	.028	14	105/6
	T7	N/A	N/A		
	T9	.027	.018	17	107/4
	T10	.023	.014	14	096/2
30 Sept	T4	.030	.018	18	175/4
	T5	.045	.025	18	124/3
	T6	.041	.026	18	192/2
	T7	N/A	N/A		
	T9	.025	.018	18	0/1
	T10	.036	.015	17	191/9
01 Oct	T4	.036	.021	18	0/0
	T5	.065	.028	10	N/A
	T6	.060	.021	12	253/11
	T7	N/A	N/A		
	T9	.050	.025	12	328/9
	T10	.061	.022	17	293/3
02 Oct	T4	.142	.052	13	236/2 (11 PST)
	T5	.135	.055	12	267/3 (13 PST)
*N/A	T6	.176	.044	12	252/5
01-11 PST	T7	.174*	.076*	14	229/4 (13 PST)
	T9	.156	.049	14	330/6 (13 PST)
	T10	.126	.044	16	289/5

TABLE B2-5

NO_2 RECORDED AT GVRD STATIONS
3 TO 10 OCTOBER - BTGP OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
03 Oct	T4	.085	.037	11	0/1
	T5	.098	.047	11	0/1
	T6	.120	.046	14	101/4
	T7	.091	.029	12	227/2 (11 PST)
	T9	.080	.040	11	0/1
	T10	.090	.033	13	114/3 (14 PST)
04 Oct	T4	.044	.017	17	023/3
	T5	.054	.022	17	0/0
	T6	.051	.018	17	0/0
	T7	.044	.017	14	230/2
	T9	.064	.024	16	316/5
	T10	.032	.015	13	147/2
05 Oct	T4	.120	.048	17	0/1
	T5	.100	.061	19	0/0
	T6	.100	.035	18	0/1
	T7	.085	.031	18	056/2
	T9	.144	.046	17	300/2
	T10	.062	.024	14	192/2
06 Oct	T4	.045	.032	11	0/1
	T5	.057	.043	11	147/3
	T6	.043	.024	17	149/2
	T7	.050	.024	17	0/1
	T9	.059	.028	16	0/1
	T10	.058	.021	16	212/2
07 Oct	T4	.049	.026	09	0/1
	T5	.062	.037	10	150/3
	T6	.053	.023	13	241/7
	T7	.071	.028	17	236/2
	T9	.047	.025	17	188/3
	T10	.051	.018	16	190/5
08 Oct	T4	.028	.017	09	193/2
	T5	.039	.025	09	260/3
	T6	.029	.013	20	305/2
	T7	.030	.015	10	253/3
	T9	.032	.020	10	260/6
	T10	.031	.018	10	239/4

TABLE B2-5 - (Cont'd)

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
09 Oct	T4	.047	.027	12	263/2
	T5	.063	.034	11	0/1
	T6	.062	.028	11	220/3
	T7	.065	.023	12	229/3
	T9	.056	.030	16	345/8
	T10	.084	.022	16	287/7
10 Oct	T4	.121	.059	14	027/2
	T5	.157	.072	10	0/0
	T6	.152	.055	10	0/0
	T7	.091	.039	15	0/0
	T9	.112	.052	17	307/2 (16 PST)
	T10	.128	.041	16	0/1

TABLE B2-6

NO_2 RECORDED AT GVRD STATIONS
13 TO 17 OCTOBER 1980 - BTGP NON-OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
13 Oct	T4	.014	.010	16	033/6
	T5	.025	.011	22	0/0
	T6	.017	.008	23	0/1
	T7	.012	.008	18	0/1
	T9	.023	.011	18	0/1
	T10	.008	.003	18	0/1
14 Oct	T4	.039	.020	12	264/5
	T5	.040	.025	10	0/0
	T6	.074	.018	11	240/5
	T7	.075	.024	12	230/5
	T9	.054	.021	12	326/9
	T10	.055	.016	13	296/6
15 Oct	T4	.037	.018	11	264/5
	T5	.048	.026	09	0/0
	T6	.044	.015	10	217/3
	T7	.062	.022	12	232/4
	T9	.041	.021	11	337/5
	T10	.060	.017	12	272/3
16 Oct	T4	.040	.025	15	215/4
	T5	.066	.039	11	0/1
	T6	.074	.030	12	198/3
	T7	.081	.036	15	223/3
	T9	.053	.027	11	087/2
	T10	.048	.022	13	187/3
17 Oct	T4	.039	.025	17	0/1
	T5	.052	.036	17	0/0
	T6	.043	.024	15	113/2
	T7	.044	.026	15	0/0
	T9	N/A	N/A		
	T10	.048	.020	17	0/0

TABLE B2-7

NO_2 RECORDED AT GVRD STATIONS
20 TO 24 OCTOBER 1980 - BTGP OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
20 Oct	T4	.037	.020	17	192/5
	T5	.051	.030	17	214/2
	T6	.030	.015	17	0/1
	T7	.046	.024	17	0/0
	T9	N/A	N/A		
	T10	.046	.024	15	193/4
21 Oct	T4	.025	.018	16	071/3
	T5	.033	.024	18	071/4
	T6	.033	.017	15	0/1
	T7	.034	.020	09	0/1
	T9	N/A	N/A		
	T10	.030	.019	10	083/5
22 Oct	T4	.045	.023	12	0/1
	T5	.068	.030	13	0/1
	T6	.086	.026	13	261/5 (12 PST)
	T7	.083	.027	15	0/1
	T9	N/A	N/A		
	T10	.090	.027	16	290/7
23 Oct	T4	.092	.034	15	029/2
	T5	.100	.049	15	0/1
	T6	.185	.054	21	072/4
	T7	.077	.030	13	229/2
	T9	N/A	N/A		
	T10	.046	.020	15	0/0
24 Oct	T4	.030	.023	11	027/5
	T5	.050	.032	10	300/2
	T6	.040*[1]	.017*[1]	03	0/0
	T7	.034	.022	20	0/1
	T9	N/A	N/A		
	T10	.030	.018	11	0/1

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*[1] Only 7 hours data were available for Station T6.

TABLE B2-8

NO_2 RECORDED AT GVRD STATIONS
27 TO 31 OCTOBER 1980 - BTGP NON-OPERATIONAL

Date	GVRD Station	Day Max. (ppm)	Day Mean (ppm)	Hour of Max. PST	Wind Direction/Speed (deg./km/h)
27 Oct	T4	.038	.019	16	0/1
	T5	.052	.028	13	0/1
	T6	N/A	N/A		
	T7	.072	.022	14	0/1
	T9	N/A	N/A		
	T10	.040	.013	16	0/0
28 Oct	T4	.094	.034	16	0/0
	T5	.112	.048	15	0/0
	T6	N/A	N/A		
	T7	.116	.033	14	241/2
	T9	N/A	N/A		
	T10	.064	.020	14	0/1
29 Oct	T4	.039	.023	18	0/1
	T5	.056	.038	17	0/0
	T6	N/A	N/A		
	T7	.046	.021	14	0/0
	T9	N/A	N/A		
	T10	.045	.020	19	0/0
30 Oct	T4	.060	.026	13	023/7
	T5	.084	.039	13	350/2
	T6	N/A	N/A		
	T7	.081	.022	15	0/0
	T9	N/A	N/A		
	T10	.033	.013	14	0/1
31 Oct	T4	.035	.019	09	038/5
	T5	.034	.015	17	067/10
	T6	N/A	N/A		
	T7	.014	.011	11	0/1
	T9	N/A	N/A		
	T10	.027	.011	14	069/6

APPENDIX B3

GVRD NO_2 DATA - THE EFFECTS OF METEOROLOGY

FIGURES

Figures B3-1 to B3-10 GVRD Nitrogen Dioxide Concentrations - Monthly Data Summary 1977 to 1980

Figure B3-11 Hourly NO_2 Concentrations - 12 October 1979

Figure B3-12 Hourly NO_2 Concentrations - 9 September 1980

Figure B3-13 Hourly NO_2 Concentrations - 28 April 1979

Figure B3-14 Vertical Temperature and Wind Speed Profiles - Burrard Inlet

APPENDIX B3
GVRD NO_2 DATA - THE EFFECTS OF METEOROLOGY

B3.1 INTRODUCTION

The Greater Vancouver Regional District (GVRD) issues an annual summary of air pollutant concentrations measured by the AQMS network. From these summaries the monthly maximum 1-hour average, the monthly maximum 24-hour average and the monthly average values of nitrogen dioxide concentrations (PPM) from each station have been abstracted and plotted in Figs. B3-1 to B3-10. The period covered is up to December 1980 from the instrument installation date which varies, station to station. Some breaks in the data occurred due to instrument maintenance.

B3.2 NO_2 DATA COMPARISON

Examination of the GVRD data base[7] has shown that the September-October period produces conditions which result in elevated simultaneous NO_2 impacts at most of the network stations. Figs. B3-11 and B3-12 are examples of this areal eposodic effect. On the 12 October 1979 peak values were recorded at all stations in the afternoon. In fact, the highest 1-hour NO_2 concentration ever recorded by the network of 0.25 PPM was measured at Anmore School (T7), and the same afternoon the highest concentration ever recorded at Confederation Park (T5) of 0.20 PPM occurred. On this date there were six units operating at BTGP. Since T5 and T7 are in opposite directions, it is not likely that the powerplant contributed to NO_2 concentrations at both sites.

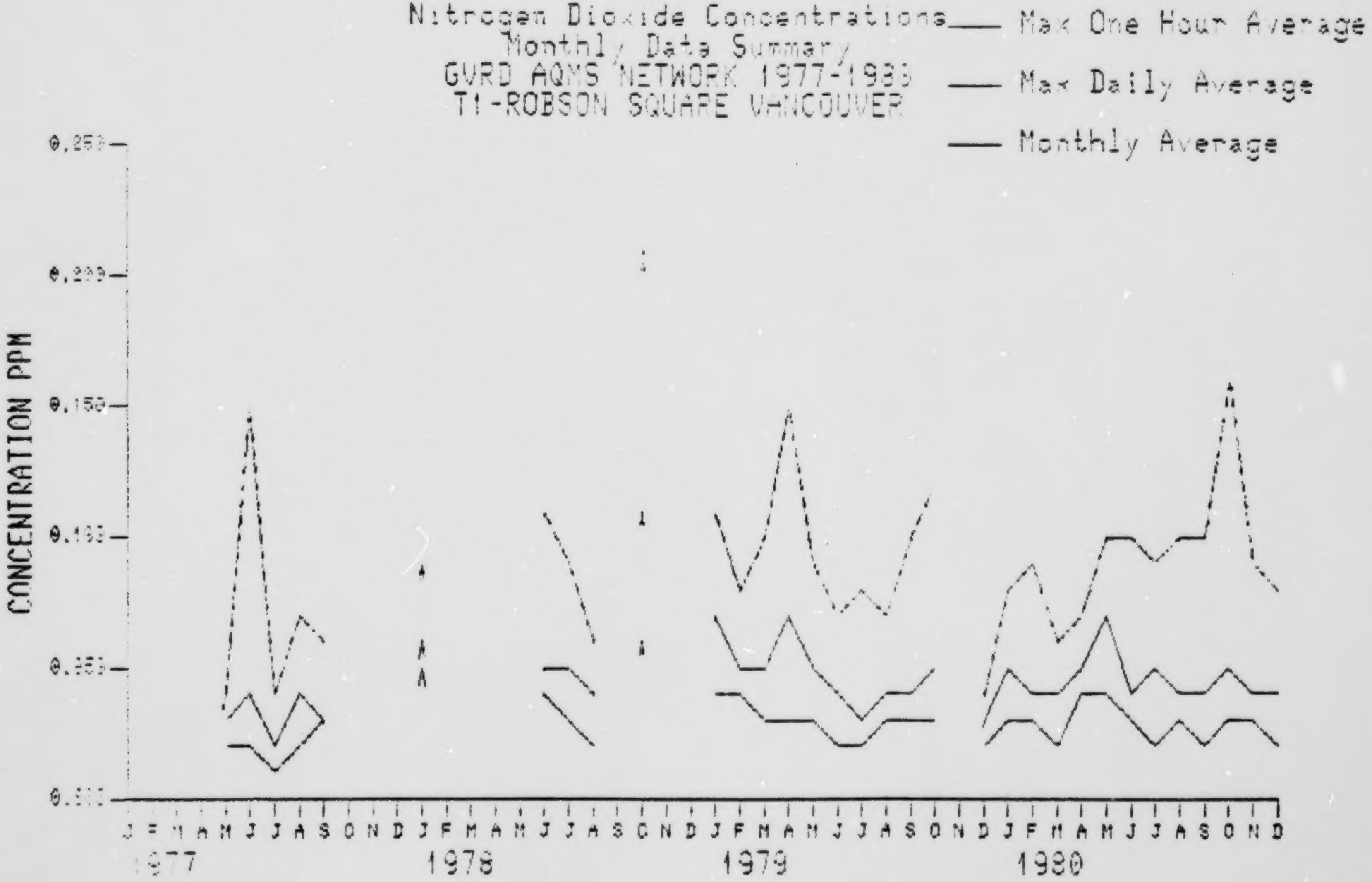
Fig. B3-12, similarly, shows elevated NO_2 concentrations at stations surrounding BTGP through mid-day, and in this case BTGP was not operating. Secondary peaks are discernible at most stations in mid-morning and early evening following the peak flows of automobile traffic.

In contrast, the plots of 1-hour NO_2 concentrations for 28 April 1979 in Fig. B3-13 show an absence of peaking values. On this date BTGP operated six units at 85 percent capacity, the highest 24-hour output ever from the plant.

B3.3 METEOROLOGICAL DATA

Fig. B3-14 displays meteorological data for the 3 days, consisting of vertical profiles of temperature and wind obtained from meteorological stations at various elevations from sea level up to Grouse Mountain at 1128 m. The figure shows that, on both 9 September and 12 October there was a strong surface-based inversion and winds were light at all elevations. On 28 April the air was unstable and winds were strong.

FIGURE B3 - 1



Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T1-ROBSON SQUARE VANCOUVER

FIGURE B3 - 2

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T2-G.V.R.D. OFFICE

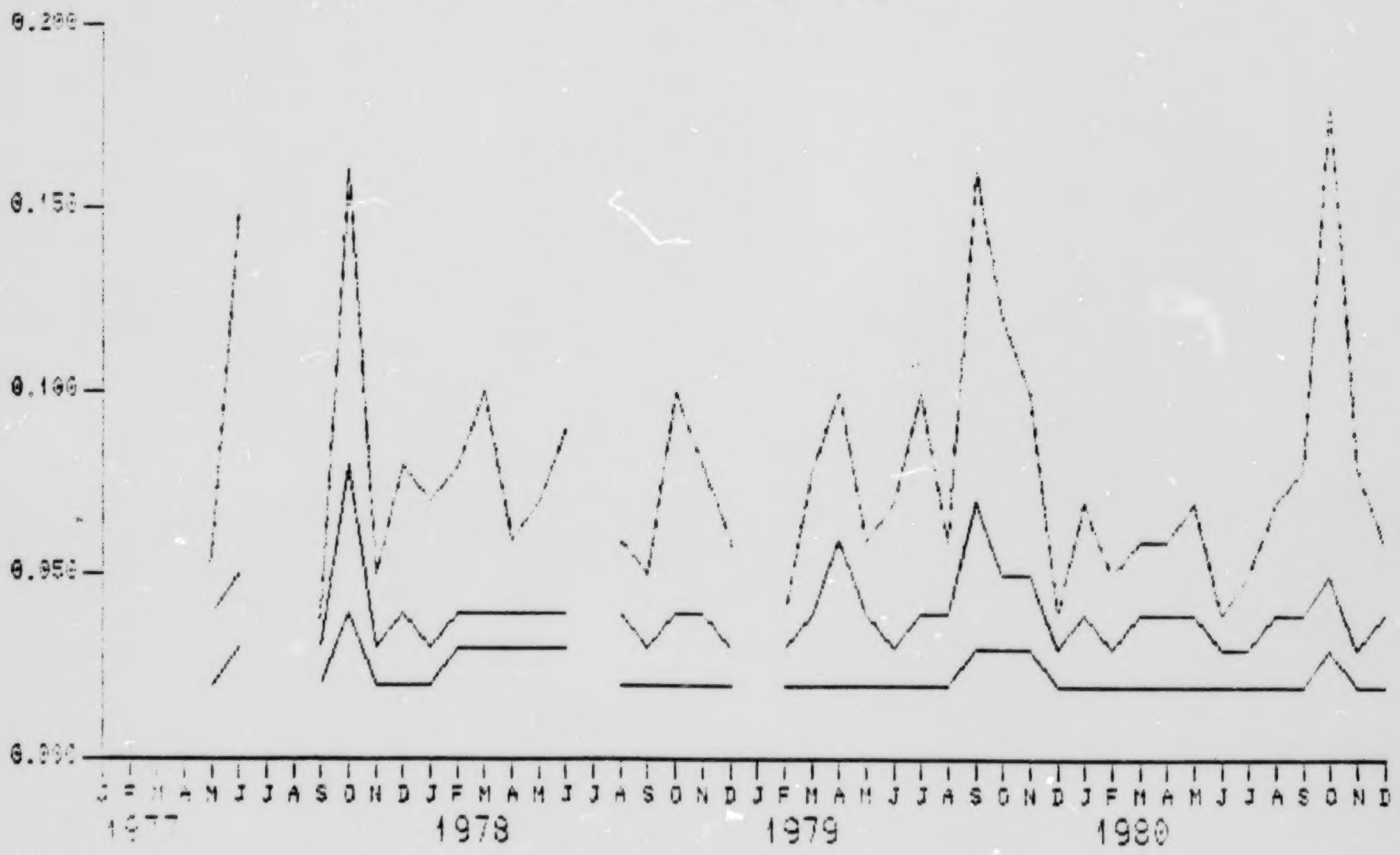
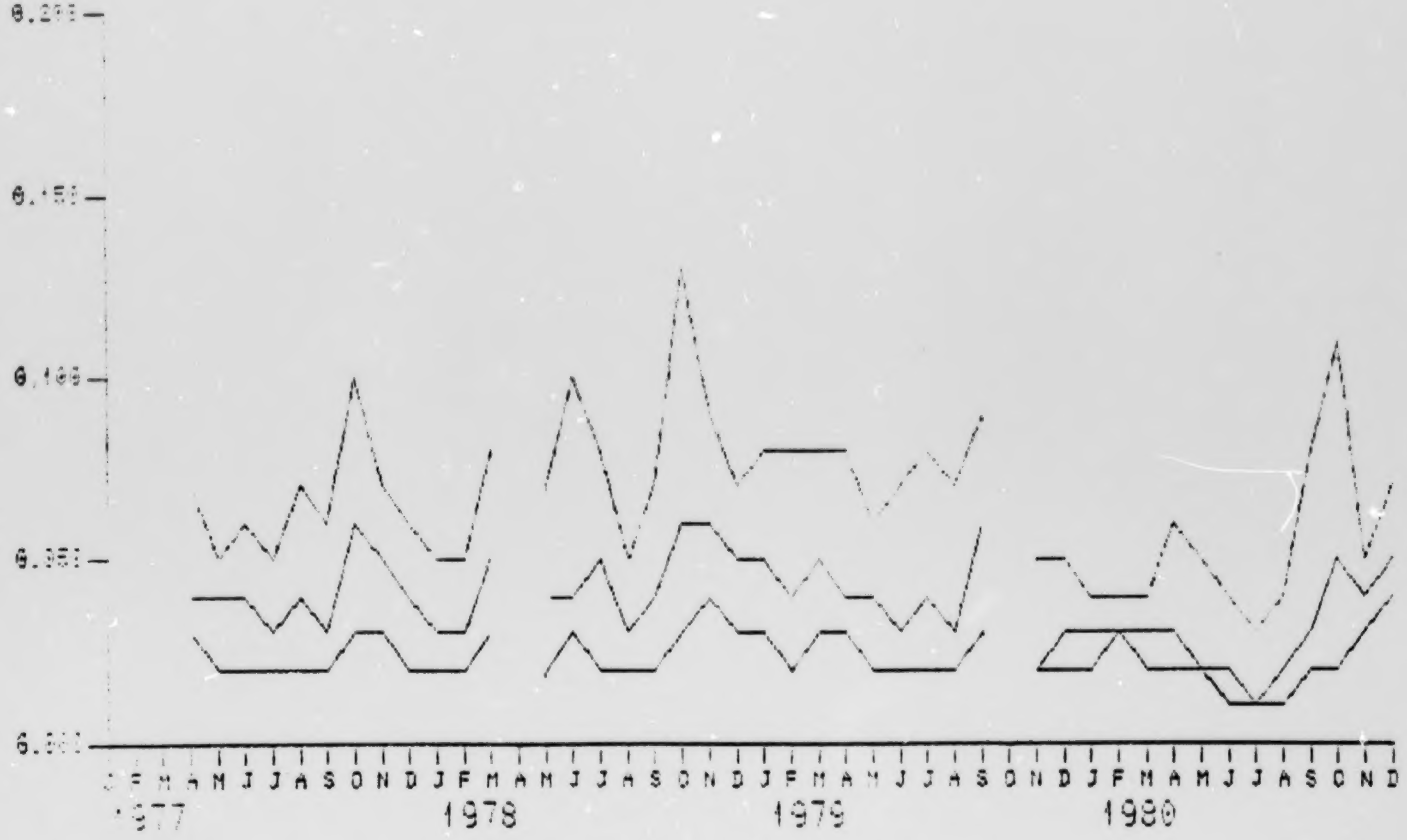


FIGURE B3 - 3

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T3-MANITOBA YARD



Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T4-KENSINGTON PARK

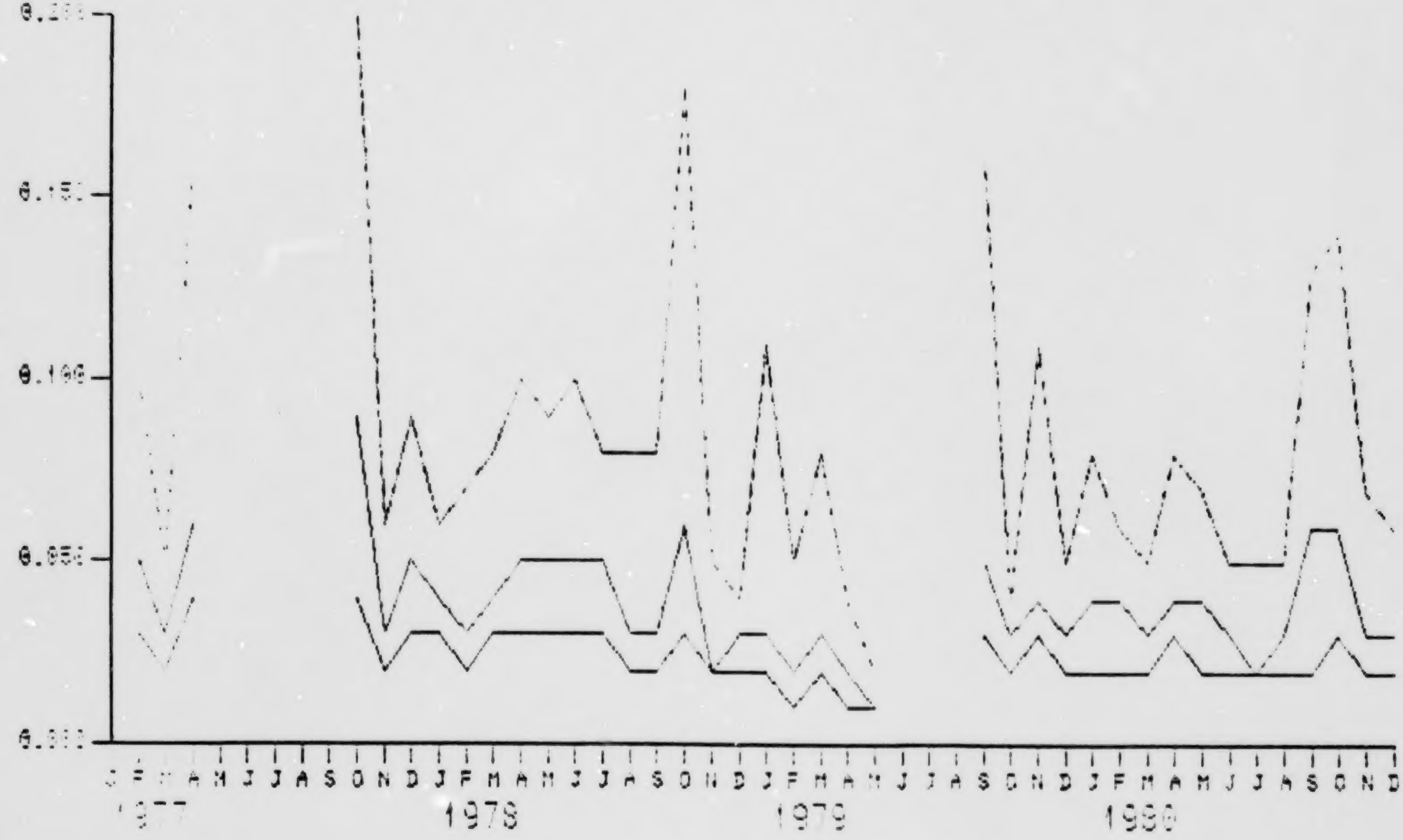


FIGURE B3 - 5

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T5-CONFEDERATION PARK

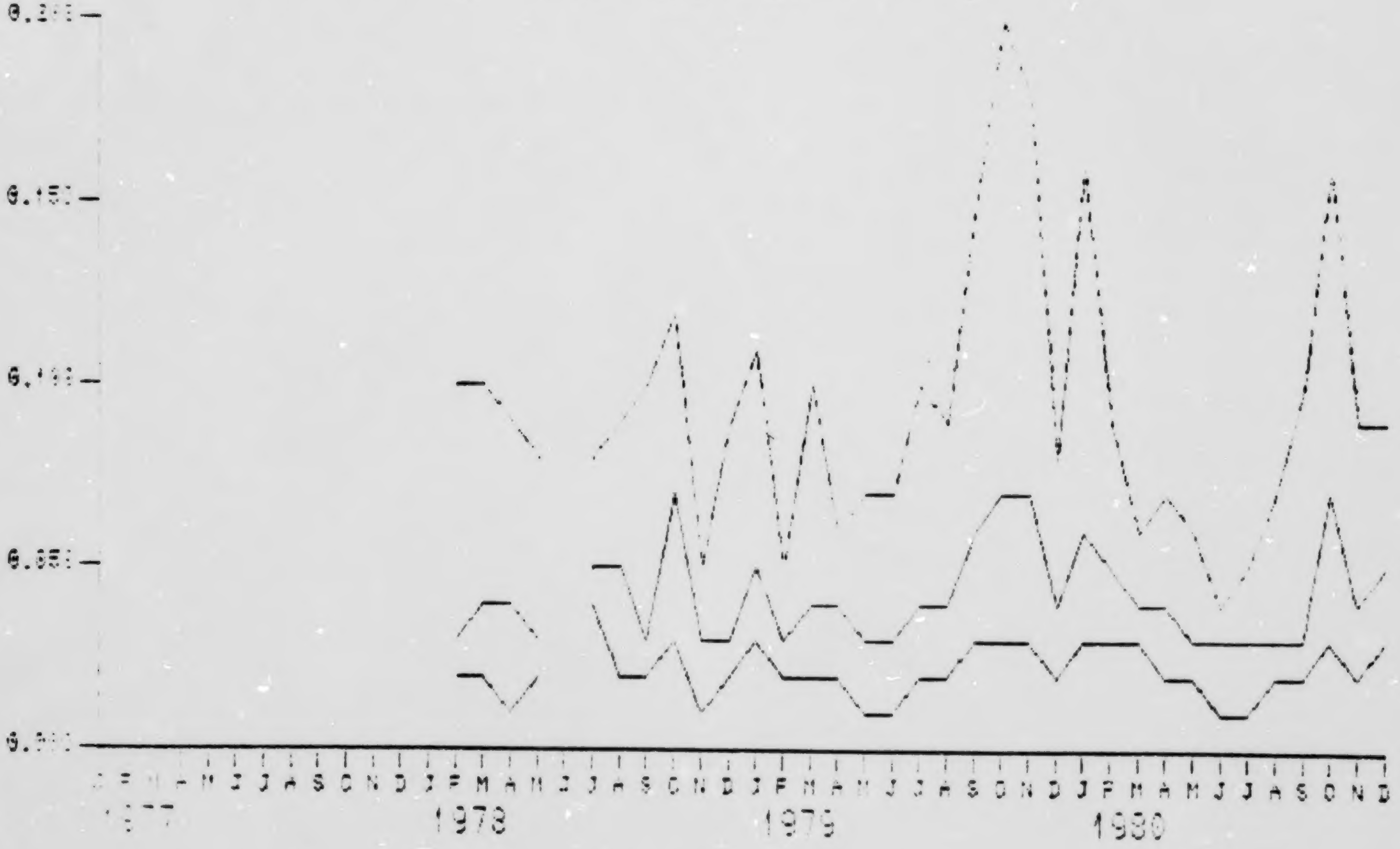


FIGURE B5 - 6

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T6-BEACH YARD

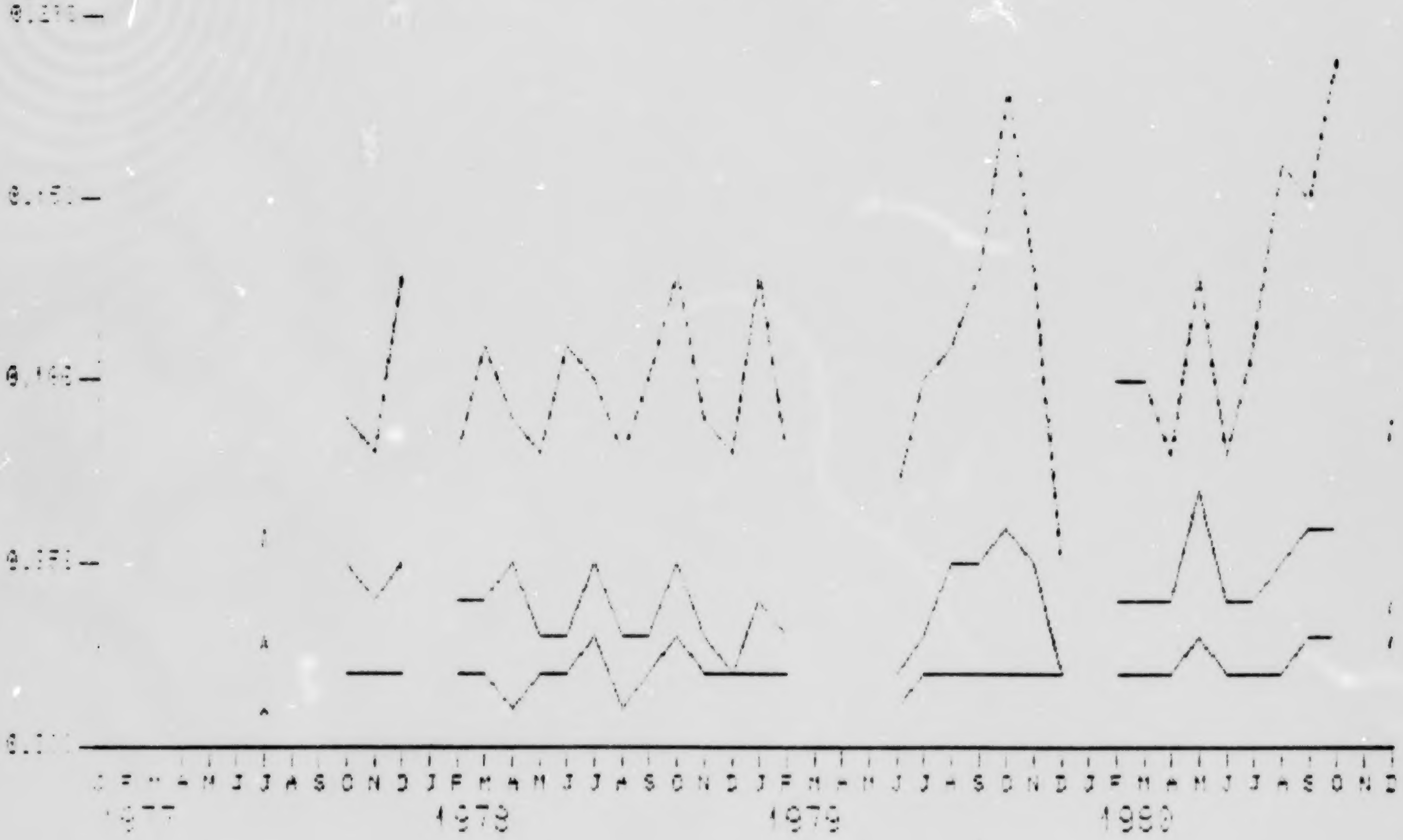


FIGURE B3 - 7

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T7-ANMORE SCHOOL

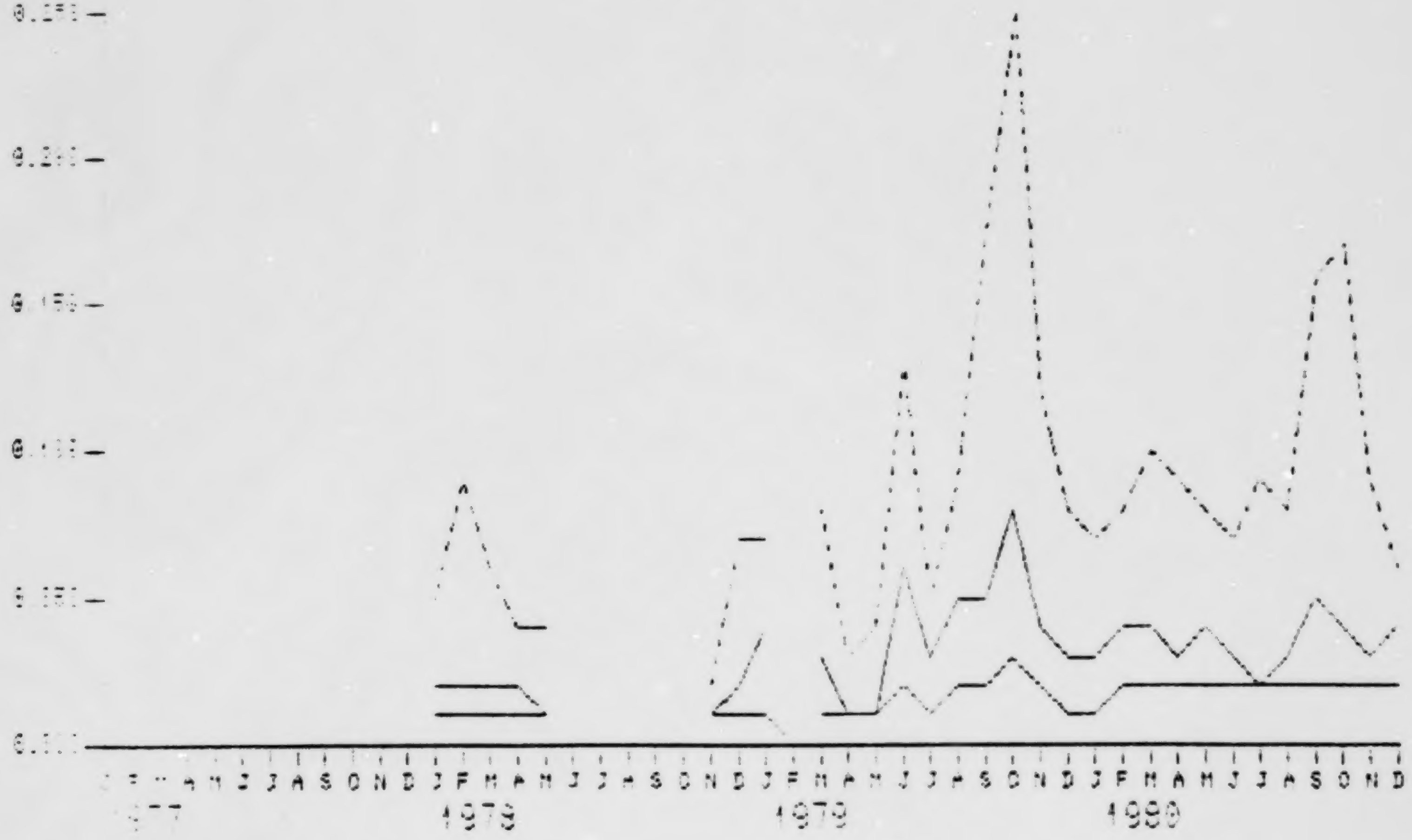


FIGURE B3 - 8

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T8-LIONS GATE S.T.P.

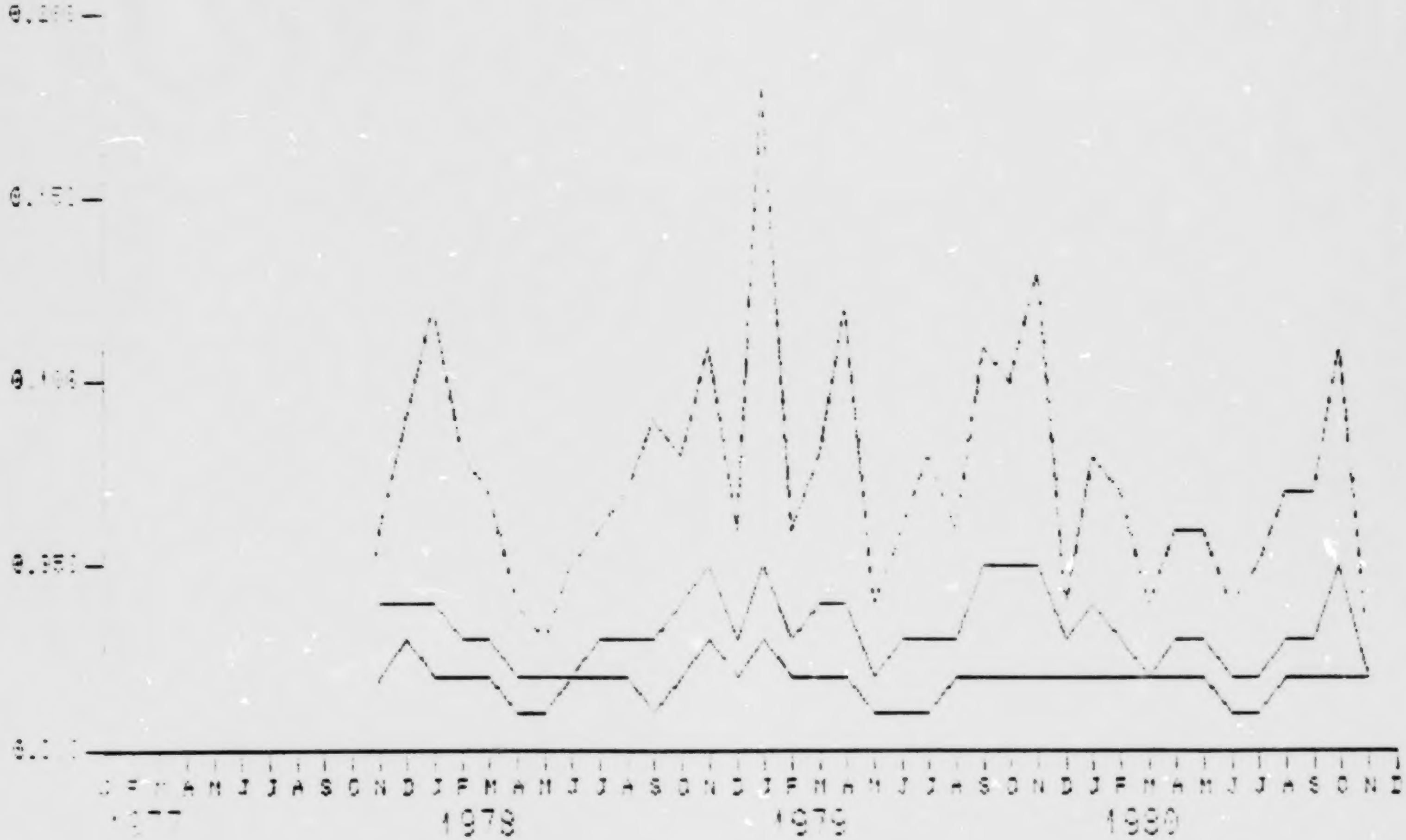


FIGURE B3 - 9

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T9-ROCKY POINT PARK

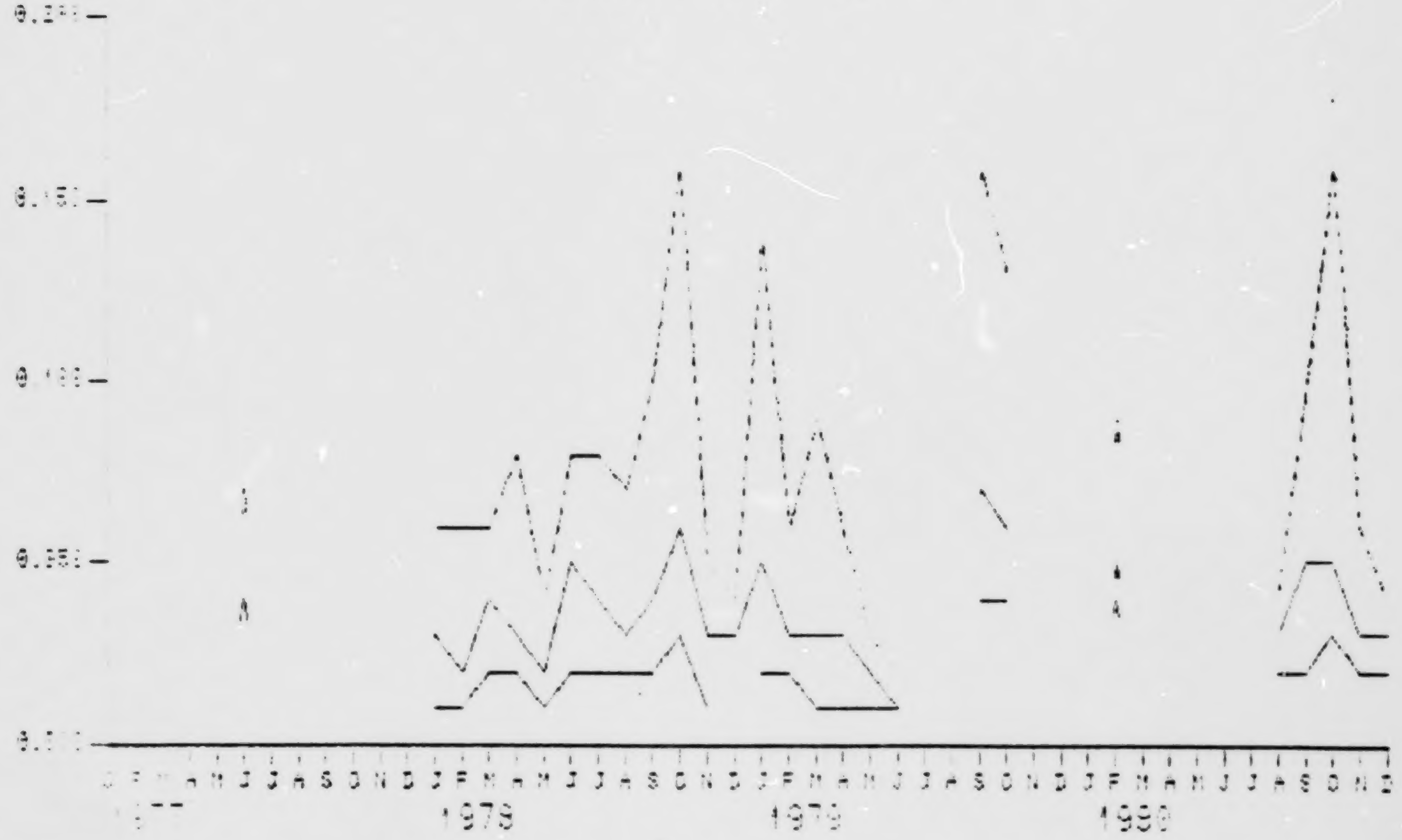
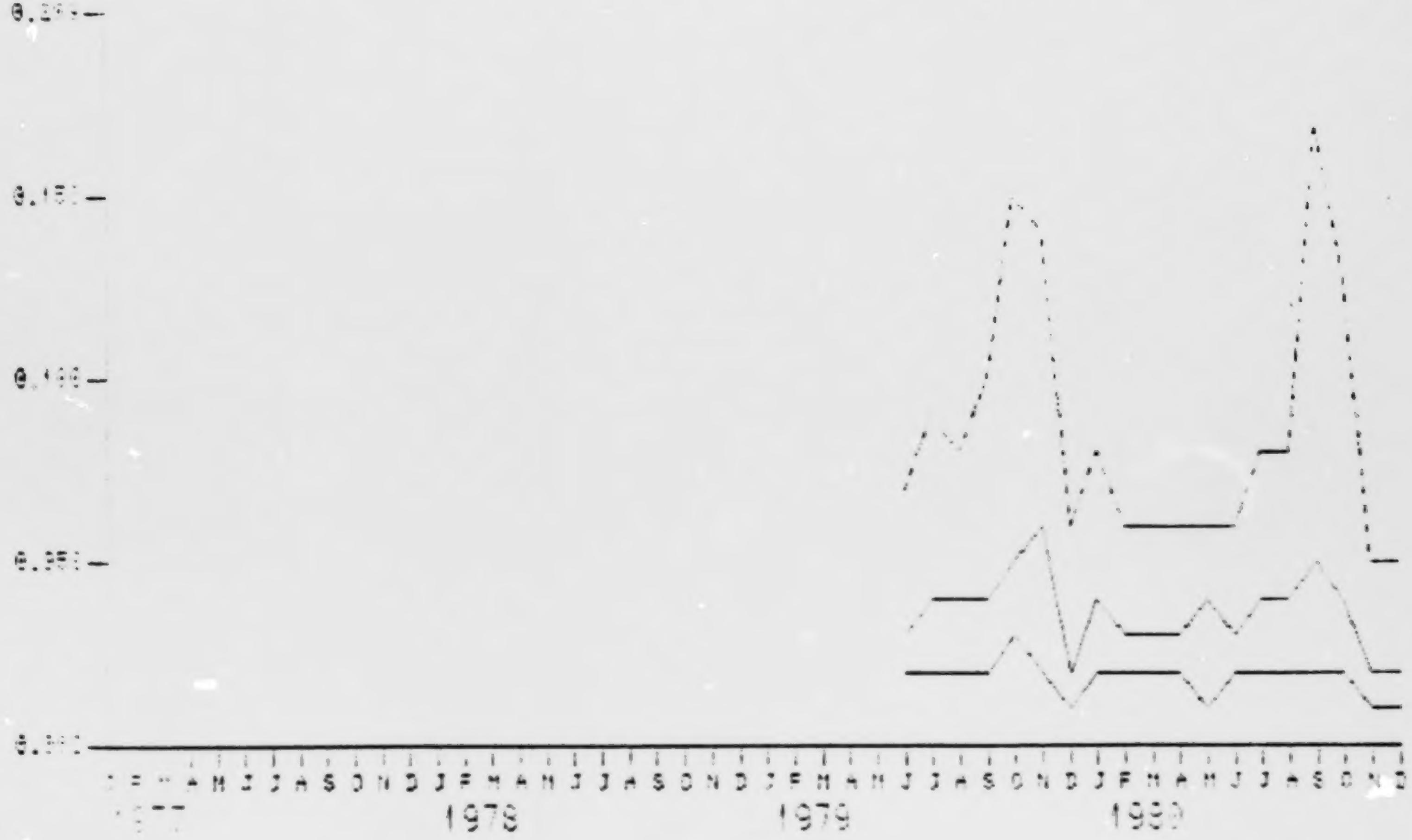


FIGURE B3 - 10

Nitrogen Dioxide Concentrations
Monthly Data Summary
GVRD AQMS NETWORK 1977-1980
T10-DEPARTMENT OF HIGHWAYS, PORT COQUITLAM



DAILY ONE HOUR CONCENTRATIONS OF NITROGEN DIOXIDE (PPM)
RECORDED BY THE GVRD AQMS NETWORK
12 OCT 1979 GVRD STATIONS T1,T2,T5,T6,T7,T8,T10
BTGP - 6 UNITS 30% CAPACITY

FIGURE B3 - 11

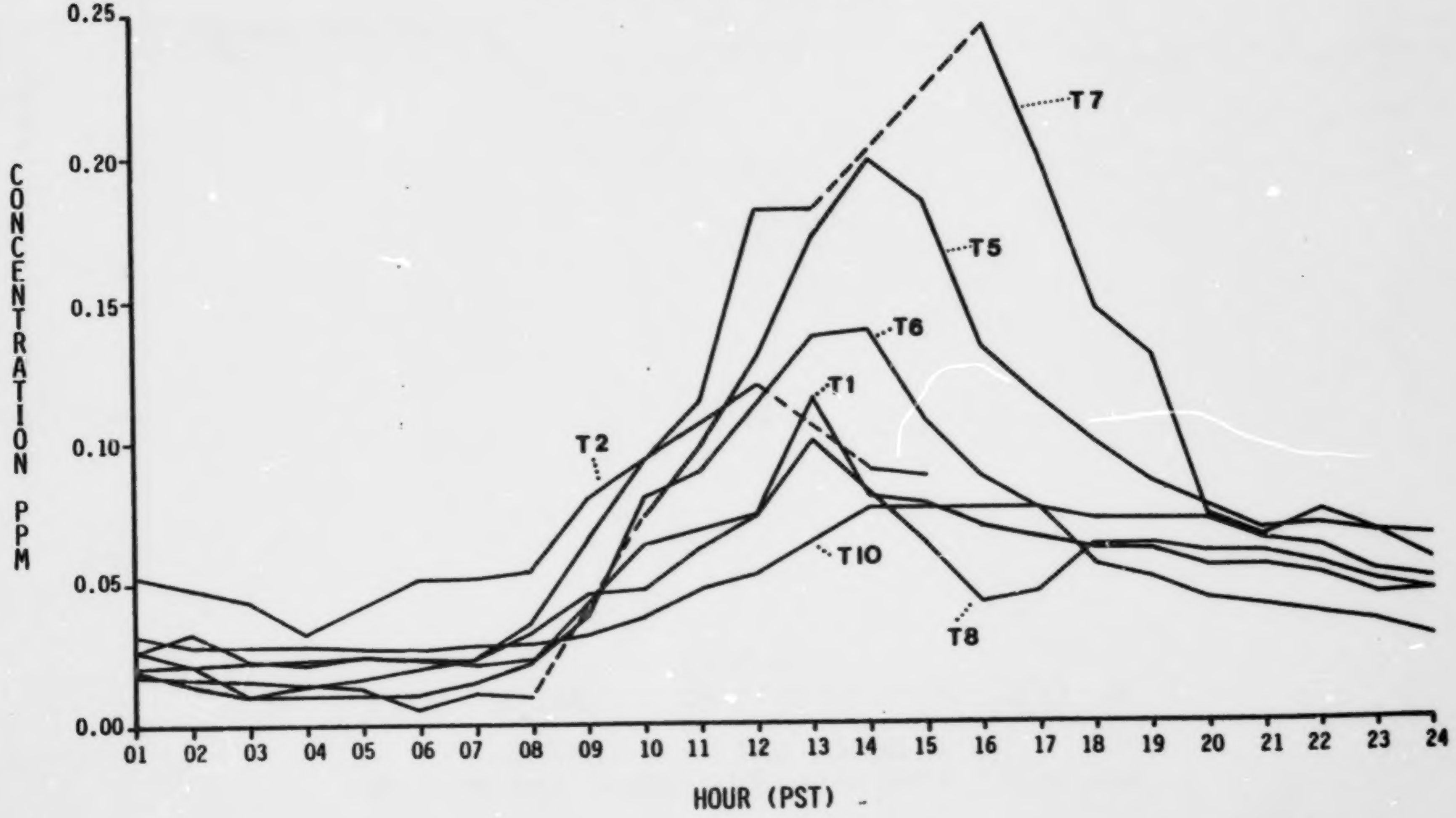


FIGURE B3 - 12

DAILY ONE-HOUR CONCENTRATIONS OF NITROGEN DIOXIDE (PPM)
RECORDED BY THE GVRD AQMS NETWORK

9 SEPT 1980 GVRD STATIONS T1,T2,T3,T4,T6,T7,T8,T9,T10
BTGP-NIL UNITS

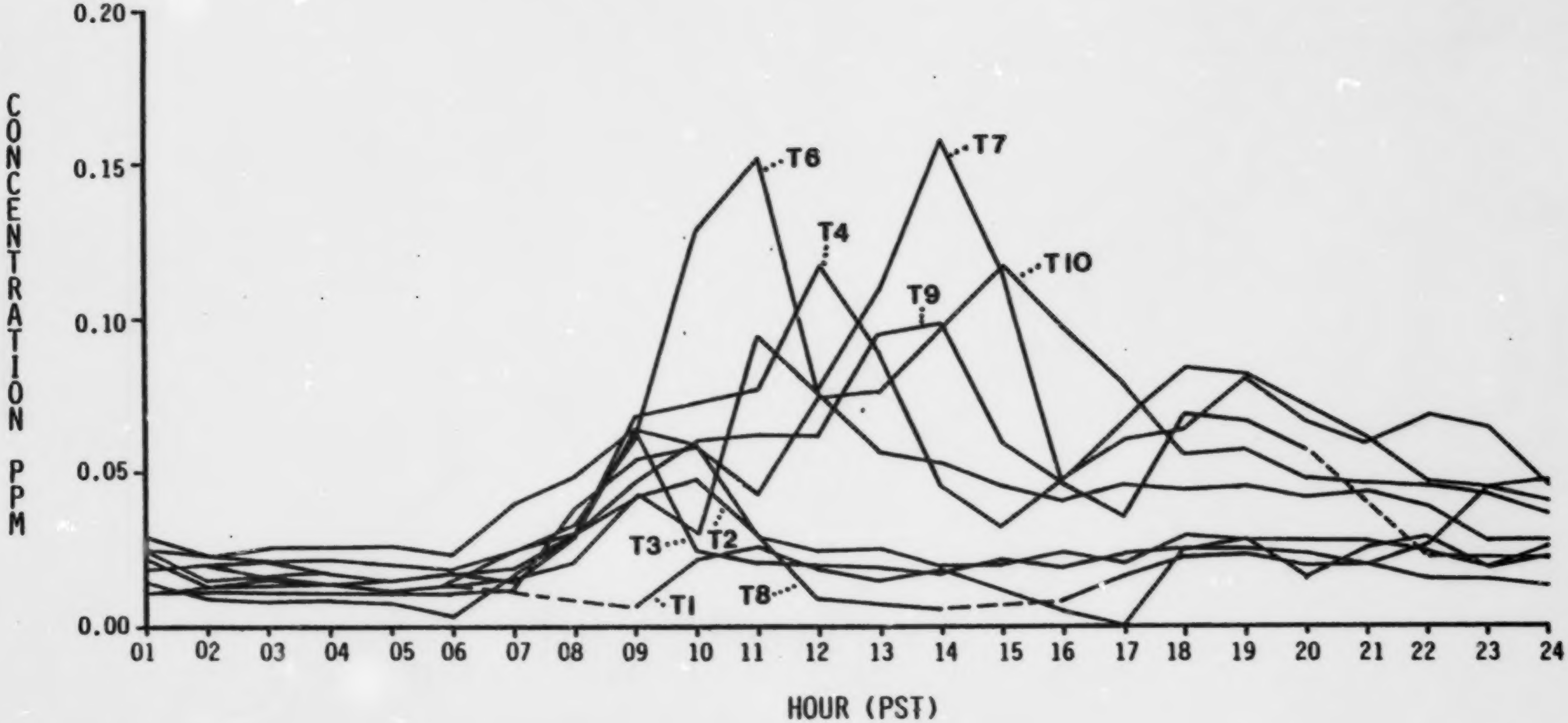
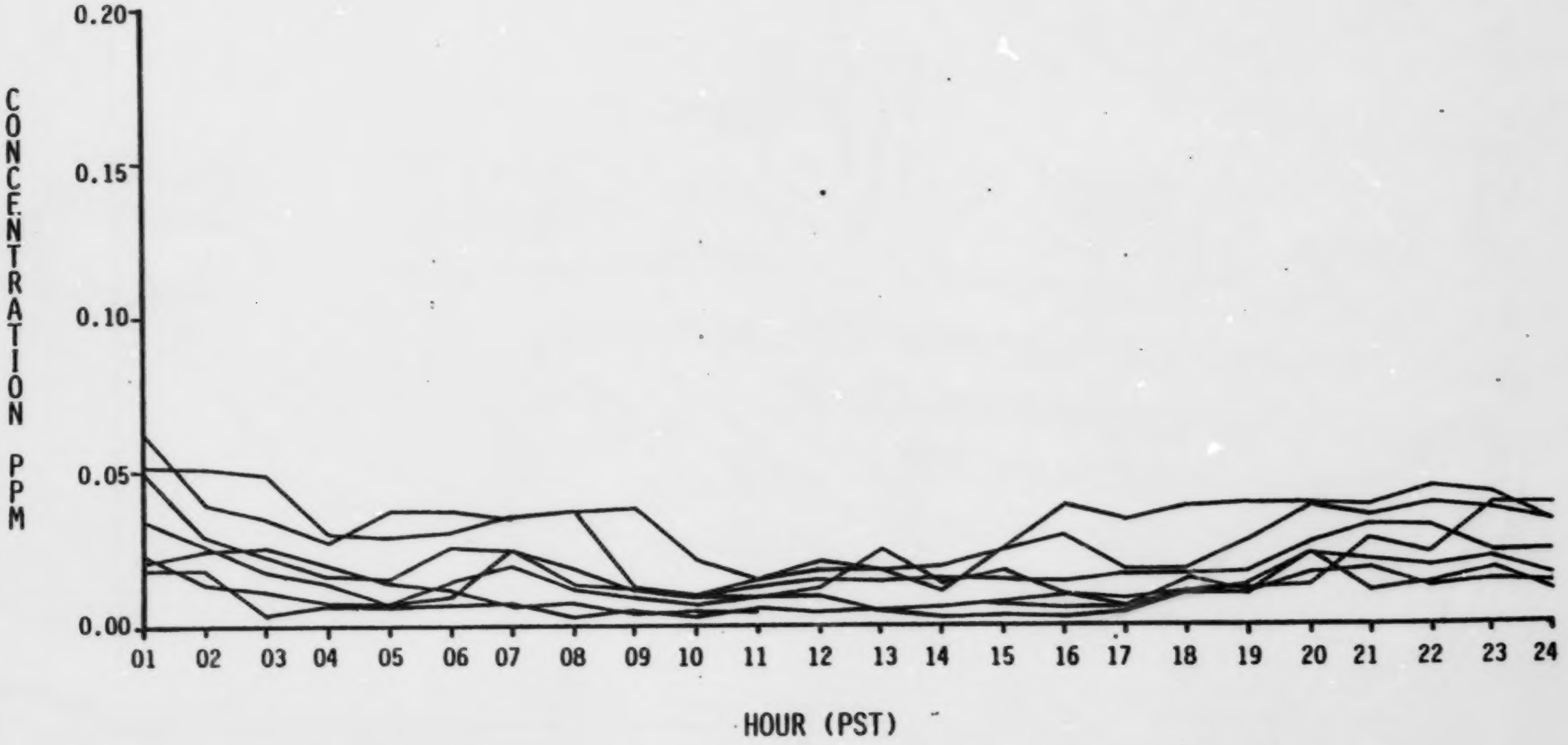


FIGURE B3 - 13

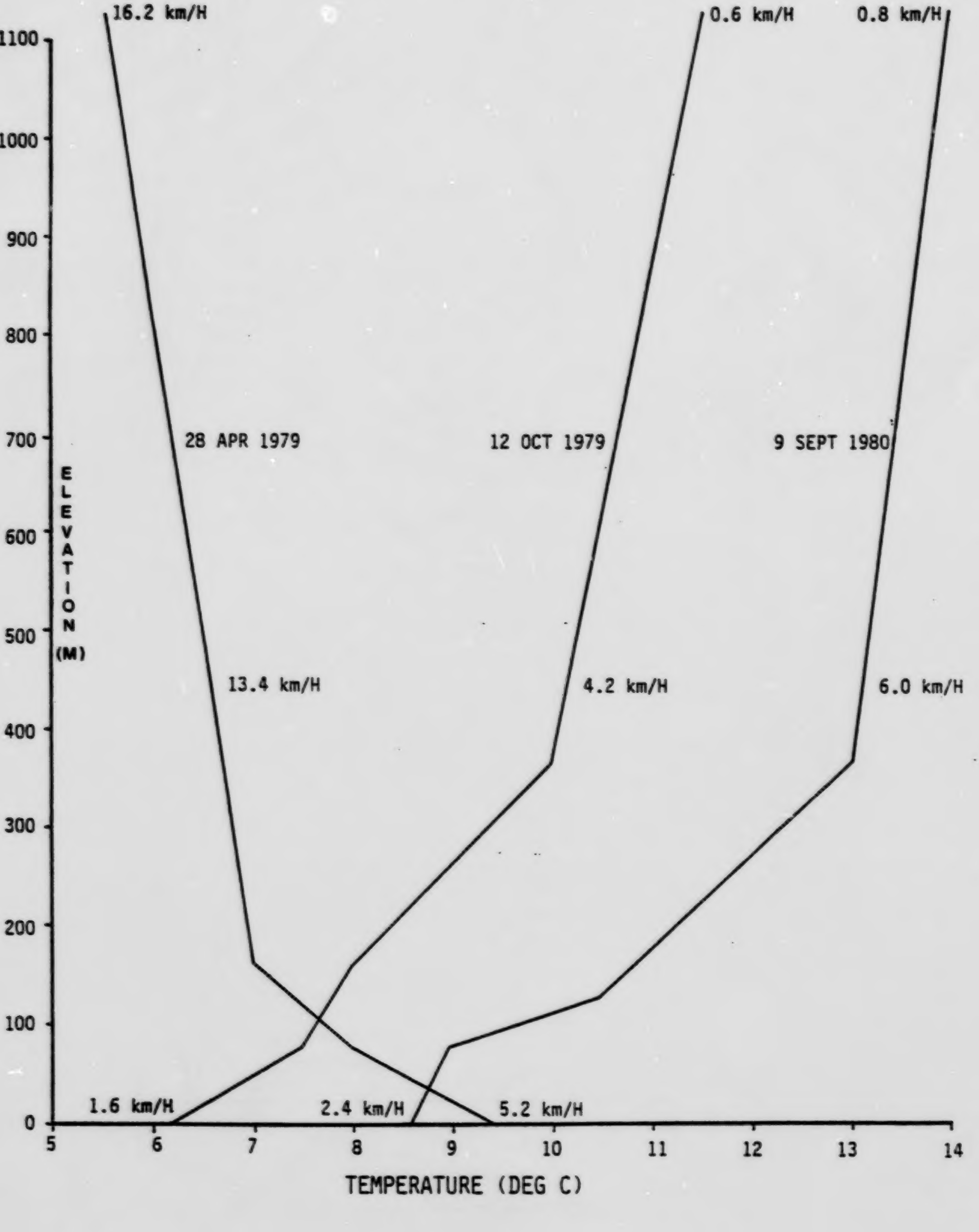
DAILY ONE-HOUR CONCENTRATIONS OF NITROGEN DIOXIDE (PPM)
RECORDED BY THE GVRD AQMS NETWORK

28 APRIL 1979 GVRD STATIONS T1,T2,T3,T4;T5,T8,T9
BTGP - 6 UNITS 85% CAPACITY



VERTICAL TERMPERATURE AND WIND SPEED PROFILES -BURRARD INLET-

FIGURE B3 - 14



APPENDIX C

TRACER GAS PROGRAM DATA

C1 SUMMARIES OF MAXIMUM MEASURED SF_6 CONCENTRATIONS AND CALCULATED NO_x CONCENTRATIONS

C2 SAMPLER SF_6 CONCENTRATIONS - HOUR AVERAGE SAMPLES AND GRAB SAMPLES

APPENDIX C1

SUMMARIES OF MAXIMUM MEASURED $SF_{\star}$ CONCENTRATIONS AND CALCULATED NO_x CONCENTRATIONS

Table C1-1 Tracer Gas and NO_x Emissions
Figure C1-1 Topographic Outline of Burrard Inlet "IMPACT" Grid
Table C1-2 Summary of Maximum Measured Tracer Gas Calculated Concentrations and NO_x Concentrations

TABLE C1-1

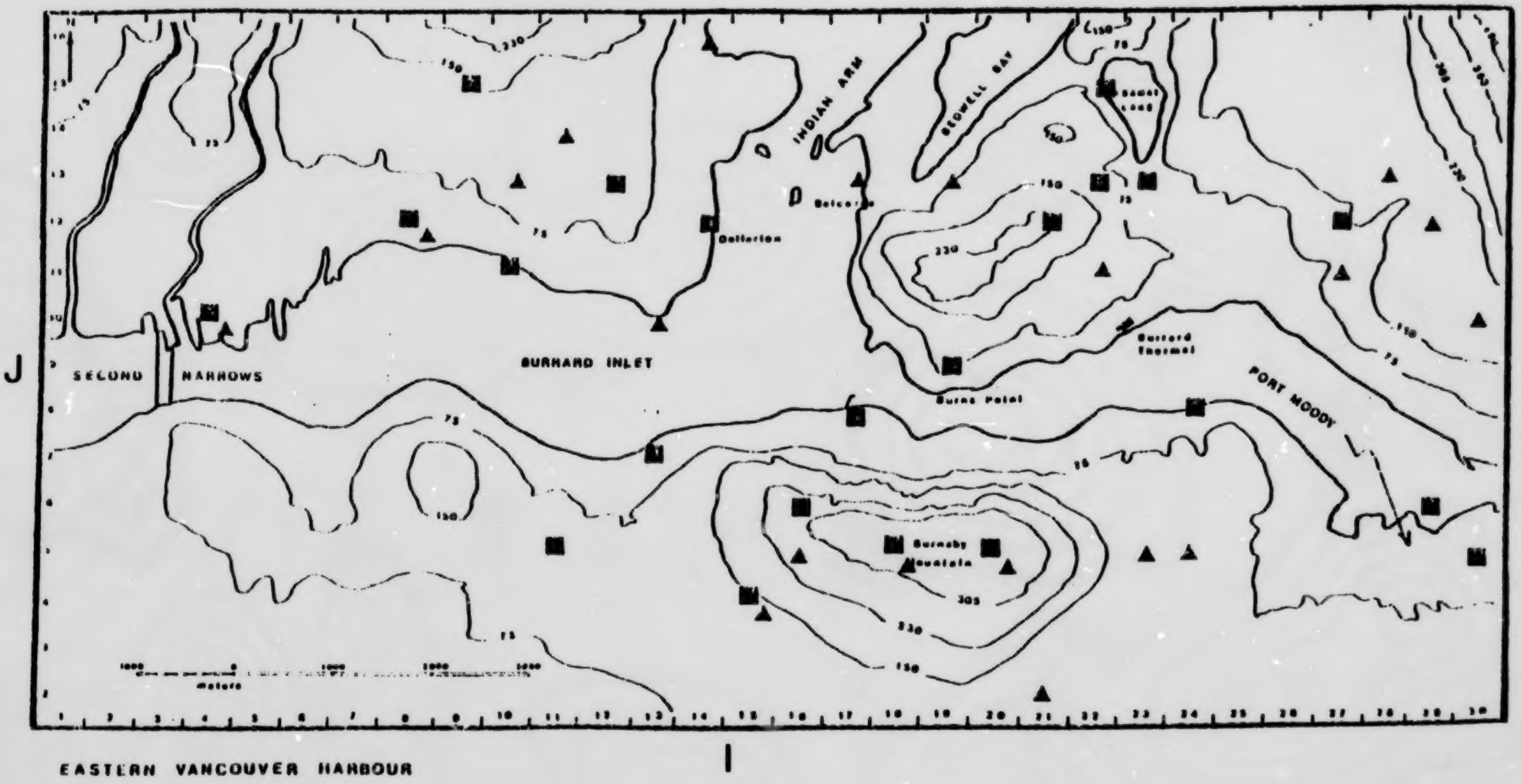
TRACER GAS AND NO_x EMISSIONS

Date	Plant Emissions lb/hr			Emission Ratio ($NO_x \div SF_6$)	
	SF_6	NO_x (as NO_2)			
		Installed Capacity 912.5 MW	Normal Maximum 600 MW	Installed Capacity 912.5 MW	Normal Maximum 600 MW
24 Sept 1979	8.4	1330	890	158.3	106.0
25 Sept 1979	7.9	1330	890	168.4	112.7
26 Sept 1979	8.1	1330	890	164.2	109.9
28 Sept 1979	14.0	1330	890	95.0	63.6
29 Sept 1979	14.7	1330	890	90.5	60.5
30 Sept 1979	15.1	1330	890	88.1	58.9
14 Feb 1980	16.1	1380	920	85.9	57.1
15 Feb 1980	13.5	1380	920	102.4	68.1
16 Feb 1980	14.5	1380	920	95.4	63.4
17 Feb 1980	14.1	1380	920	98.1	65.2
24 Sept 1980	15.5	1380	920	89.2	59.4
25 Sept 1980	15.9	1380	920	87.0	57.9
3-7 Oct 1980	7.8	1350	920	172.3	117.5
28 Sept 1982	14.4	1350	920	93.8	63.9
29 Sept 1982	14.7	1350	920	91.8	62.6
30 Sept 1982	14.5	1350	920	93.1	63.4
5 Oct 1982	15.9	1350	920	84.9	57.9
7 Oct 1982	15.3	1350	920	88.2	60.1

FIGURE C1-1

Topographic outline of the Burrard Inlet IMPACT grid showing the locations of sampler sites used during the September 1979 and February 1980 programs

LEGEND
■ Sequential Samplers
▲ Grab Samplers



SECOND NARROWS
BURRARD INLET
INDIAN ARM
BEDWELL BAY
PORT MOODY
Dollarton
Belcarra
Burns Point
Burrard Thermal
Burnaby Mountain
75
150
230
305
metres
J
I
EASTERN VANCOUVER HARBOUR

TABLE C1-2

SUMMARY OF MAXIMUM MEASURED TRACER GAS CONCENTRATIONS SEPTEMBER 1979 TO OCTOBER 1980

Date	Time	SF_6 Maximum Conc.*[1] µg/m³	Sampler Location (I, J)	Calculated NO_x Concentration*[2] for Normal Maximum Load of 600 MW (µg/m³)
24 Sept 1979	0500-0600	0.12	27, 12	12
	0600-0700	0.67	23, 13	65
	0700-0800	0.67	23, 13	65
	0800-0900	1.90	17, 8	180
	0900-1000	1.24	27, 9	120
	1000-1100	2.12	27, 9	210
	1100-1200	1.15	27, 12	110
	1200-1300	0.77	27, 12	75
	1300-1400	0.18	29, 3	18
25 Sept 1979	0500-0600	0.32	17, 8	33
	0600-0700	0.16	17, 8	16
	0700-0800	1.54	17, 8	160
	0800-0900	5.38	17, 8	560
	0900-1000	3.36	17, 8	350
	1000-1100	1.89	17, 8	200
	1100-1200	1.93	27, 12	200
	1200-1300	0.97	27, 12	100
	1300-1400	0.70	27, 12	72
26 Sept 1979	0600-0700	0.17	17, 8	17
	0700-0800	0.38	12, 13	38
	0800-0900	0.73	15, 14	74
	0900-1000	0.33	15, 14	33
	1000-1100	0.28	21, 12	28
	1100-1200	0.12	21, 12	12
	1200-1300	0.19	23, 13	19
	1300-1400	0.34	17, 8	34
28 Sept 1979	0500-0600	0.19	19, 9	11
	0600-0700	1.22	19, 9	71
	0700-0800	0.28	17, 13	16
	0800-0900	0.95	17, 13	55
	0900-1000	1.72	17, 13	100
	1000-1100	0.58	21, 12	34
	1100-1200	0.16	27, 11	9
	1200-1300	0.52	27, 12	30
	1300-1400	0.14	27, 12	8

TABLE C1-2 (Cont'd)

		SF_6 Maximum	SF_6 Sampler	Calculated
Date	Time	Conc.*[1] µg/m³	Location (I, J)	NO_x Concentration*[2] for Normal Maximum Load of 600 MW (µg/m³)
29 Sept 1979	0500-0600	0.25	19, 9	14
	0600-0700	0.43	17, 13	24
	0700-0800	2.65	21, 12	150
	0800-0900	0.64	19, 9	36
	0900-1000	0.50	19, 5	28
	1000-1100	0.40	19, 9	22
	1100-1200	0.47	17, 8	26
	1200-1300	1.15	19, 9	64
	1300-1400	0.13	17, 8	7
30 Sept 1979	0700-0800	0.38	19, 9	20
	0800-0900	0.22	12, 13	12
	0900-1000	0.17	12, 13	9
	1000-1100	0.23	12, 13	12
	1100-1200	0.13	17, 13	7
	1200-1300	0.19	23, 13	10
14 Feb 1980	0700-0800	0.943	16, 6	49
	0800-0900	0.705	16, 6	37
	0900-1000	0.510	19, 9	27
	1000-1100	0.588	19, 9	31
	1100-1200	0.843	20, 10	44
	1200-1300	0.119	17, 8	6
	1300-1400	0.177	18, 8	9
	1400-1500	0.342	19, 9	18
15 Feb 1980	0700-0800	0.419	20, 5	26
	0800-0900	0.058	24, 8	4
	0900-1000	0.045	20, 5	3
	1000-1100	0.133	24, 8	8
	1100-1200	0.892	20, 5	56
	1200-1300	2.119	20, 5	130
	1300-1400	0.783	20, 5	49
	1400-1500	1.186	24, 8	74
	1500-1600	0.982	20, 10	61

TABLE C1-2 (Cont'd)

Date	Time	SF_6 Maximum Sampler Conc.*[1] µg/m³	Location (I, J)	Calculated NO_x Concentration*[2] for Normal Maximum Load of 600 MW (µg/m³)
16 Feb 1980	0600-0700	0.233	20, 5	14
	0700-0800	1.465	20, 5	85
	0800-0900	1.639	19, 9	95
	0900-1000	0.917	20, 10	53
	1000-1100	0.603	20, 10	35
	1100-1200	0.333	14, 12	19
	1200-1300	1.285	24, 8	75
	1300-1400	0.894	27, 12	52
	1400-1500	1.791	20, 5	100
	1500-1600	1.036	21, 12	60
	1600-1700	1.268	24, 8	74
	1700-1800	2.691	20, 10	160
17 Feb 1980	0800-0900	1.081	20, 10	65
	0900-1000	1.498	20, 10	90
	1000-1100	1.554	19, 9	93
	1100-1200	2.646	16, 6	160
	1200-1300	2.237	16, 6	130
	1300-1400	2.604	17, 8	160
	1400-1500	2.976	20, 5	180
24 Sept 1980	0700-0800	0.143	27, 12	8
	0800-0900	0.209	17, 8	11
	0900-1000	0.225	27, 12	12
	1000-1100	0.181	27, 12	10
	1100-1200	0.848	27, 12	46
	1200-1300	1.216	27, 12	66
	1300-1400	0.922	27, 12	50
25 Sept 1980	0700-0800	0.135	27, 11	7
	0800-0900	0.356	21, 12	19
	0900-1000	0.646	21, 12	34
	1000-1100	1.405	21, 12	74
	1100-1200	1.003	21, 12	53
	1200-1300	3.984	33, 8	270
	1300-1400	1.884	33, 8	100

TABLE C1-2 (Cont'd)

Date	Time	SF_6 Maximum Conc.*1 µg/m³	Sampler Location (I, J)	Calculated NO_x Concentration*2 for Normal Maximum Load of 600 MW (µg/m³)
3 Oct 1980	1200-1300	0.17	38, 3	19
	1300-1400	1.03	27, 12	120
	1400-1500	0.58	27, 12	68
	1500-1600	0.36	27, 12	42
	1600-1700	0.13	33, 8	15
	1700-1800	0.14	27, 11	16
	1800-1900	0.20	24, 8	24
	1900-2000	0.21	33, 8	25
	2000-2100	0.18	27, 11	21
	2100-2200	0.49	17, 13	57
	2200-2300	0.0006	38, 3	0.7
	2300-2400	0.36	17, 13	42
4 Oct 1980	2400-0100	0.018	33, 8	2
	0100-0200	0.61	21, 12	73
	0200-0300	0.018	33, 8	2
	0300-0400	0.26	29, 5	31
	0400-0500	0.024	38, 3	3
	0500-0600	0.54	21, 12	64
	0600-0700	-	-	-
	0700-0800	0.22	21, 12	26
	0800-0900	0.15	17, 8	17
	0900-1000	0.26	17, 8	31
	1000-1100	0.14	33, 8	16
	1100-1200	0.16	20, 5	18
	1200-1300	0.16	21, 12	18
	1300-1400	0.35	24, 8	41
	1400-1500	0.50	27, 11	58
	1500-1600	0.54	27, 11	63
	1600-1700	0.57	27, 11	67
	1700-1800	0.60	27, 11	70
	1800-1900	-	-	-
	1900-2000	-	-	-
	2000-2100	-	-	-
	2100-2200	0.40	21, 12	46
	2300-2400	-	-	-

TABLE C1-2 (Cont'd)

Date	Time	SF_6 Maximum Conc.*[1] µg/m³	SF_6 Sampler Location (I, J)	Calculated NO_x Concentration*[2] for Normal Maximum Load of 600 MW (µg/m³)
5 Oct 1980	2400-0100	-	-	-
	0100-0200	-	-	-
	0200-0300	-	-	-
	0300-0400	0.94	21, 12	110
	0400-0500	-	-	-
	0500-0600	1.21	21, 12	140
	0600-0700	-	-	-
	0700-0800	-	-	-
	0800-0900	-	-	-
	0900-1000	1.71	27, 12	200
	1000-1100	1.20	27, 12	140
	1100-1200	1.01	27, 11	120
	1200-1300	1.36	27, 12	160
	1300-1400	0.75	24, 8	88
	1400-1500	1.64	38, 3	190
	1500-1600	1.14	27, 12	130
	1600-1700	0.39	38, 3	46
	1700-1800	0.88	27, 12	100
	1800-1900	-	-	-
	1900-2000	0.61	27, 12	73
	2000-2100	0.21	38, 3	25
	2100-2200	0.32	17, 8	38
	2200-2300	0.14	38, 3	16
	2300-2400	0.32	13, 7	38
6 Oct 1980	2400-0100	0.15	27, 11	17
	0100-0200	0.07	29, 5	8
	0200-0300	0.22	27, 11	26
	0300-0400	0.10	29, 5	12
	0400-0500	0.16	38, 3	18
	0500-0600	0.03	29, 5	4
	0600-0700	0.09	38, 3	10
	0700-0800	0.04	29, 5	5
	0800-0900	-	-	-
	0900-1000	0.04	29, 5	5
	1000-1100	0.24	17, 13	29
	1100-1200	0.14	13, 7	16
	1200-1300	0.35	17, 13	41
	1300-1400	0.11	17, 8	13
	1400-1500	0.08	13, 7	10
	1500-1600	0.09	17, 8	10
	1600-1700	0.06	17, 13	7
	1700-1800	0.08	20, 5	10
	1800-1900	0.14	17, 13	16

TABLE C1-2 - (Cont'd)

Date	Time	SF_6 Maximum Sampler Conc.*1 µg/m³	SF_6 Maximum Sampler Location (I, J)	Calculated NO_x Concentration*2 for Normal Maximum Load of 600 MW (µg/m³)
6 Oct 1980 (Cont'd)	1900-2000	0.83	17, 13	97
	2000-2100	0.23	13, 7	27
	2100-2200	0.27	13, 7	32
	2200-2300	-	-	-
	2300-2400	0.04	29, 5	5
7 Oct 1980	2400-0100	0.23	17, 13	27
	0100-0200	0.63	17, 13	74
	0200-0300	-	-	-
	0300-0400	0.85	17, 13	99
	0400-0500	-	-	-
	0500-0600	0.16	17, 8	18
	0600-0700	-	-	-
	0700-0800	0.21	17, 8	25
	0800-0900	-	-	-
	0900-1000	-	-	-
	1000-1100	0.04	17, 8	4
	1100-1200	0.32	13, 7	38
	1200-1300	0.07	13, 7	8
	1300-1400	0.12	13, 7	14
	1400-1500	0.18	13, 7	22
28 Sept	0700-0800	0.07	11, 5	4
	0800-0900	0.05	11, 5	3
	0900-1000	0.06	11, 5	4
	1000-1100	0.03	11, 5	2
	1100-1200	0.04	29, 5	2
	1200-1300	0.10	38, 4	6
	1300-1400	0.03	11, 5	2
	1400-1500	0.02	38, 4	1
	1500-1600	0.02	38, 4	1
29 Sept	0700-0800	0.04	29, 5	3
	0800-0900	0.04	29, 5	3
	0900-1000	4.3	11, 5	270
	1000-1100	2.3	27, 12	150
	1100-1200	0.62	29, 5	39
	1200-1300	1.02	27, 12	64
	1300-1400	0.66	27, 12	41
	1400-1500	0.08	31, 6	5
	1500-1600	0.12	27, 12	7

TABLE C1-2 - (Cont'd)

Date	Time	SF$_6$ Maximum Conc.*[1] µg/m³	Sampler Location (I, J)	Calculated NO$_x$ Concentration*[2] for Normal Maximum Load of 600 MW (µg/m³)
30 Sept 1982	0600-0700	0.05	27, 12	3
	0700-0800	0.05	31, 6	3
	0800-0900	0.05	31, 6	3
	0900-1000	2.45	27, 12	160
	1000-1100	1.28	27, 12	81
	1100-1200	0.62	27, 12	39
	1200-1300	0.21	27, 12	13
5 Oct 1982	0700-0800	0.02	27, 12	1
	0800-0900	0.31	4, 10	18
	0900-1000	0.96	4, 10	55
	1000-1100	1.17	11, 5	67
	1100-1200	0.49	11, 5	28
	1200-1300	0.21	4, 10	12
7 Oct 1982	0800-0900	0.02	4, 10	1
	0900-1000	0.09	31, 6	5
	1000-1100	0.11	31, 6	6

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*[1] SF$_6$ concentrations are reported at 0°C and 760 mm Hg except for 3 to 7 October 1980 where reference conditions are 25°C and 760 mm Hg.

*[2] NO$_x$ concentrations are reported at 25°C and 760 mm Hg (Federal Reference Conditions).

Example Calc. 24 Sept 1979 1000-1100

SF$_6$ conc @ I27, J9 = 2.12 µg/m³ @ 0°C & 760 mm Hg

NO$_x$ conc for 600 MW = 2.12 $\frac{\mu g}{m^3}$ SF$_6$ x 106.0 $\frac{NOx}{SF_6}$ x $\frac{273°K}{298°K}$
@ 25°C and 760 mm Hg

= 205.9 µg/m³ say 210 µg/m³

APPENDIX C2

SAMPLER SF_6 CONCENTRATIONS - HOUR AVERAGE SAMPLES AND GRAB SAMPLES

Table C2-1	25 September 1979
Table C2-2	14 to 17 February 1980
Table C2-3	24 to 25 September 1980
Table C2-4	3 to 7 October 1980
Table C2-5	28, 29, 30 September 1982, 5, 7 October 1982

Note: For a complete list of tracer gas samples during the September 1979 and February 1980 programme please refer to Reference 5.

TABLE C2-1a

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 25 September 1979

(Hour Average Samples)

LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
I17,J8	.160	1.540	5.380	3.360	1.890	.450	0					
I30,J3	0	0	0	-	0	.390	.160					
I24,J5	0	0	0	.160	-	.170	.070					
I27,J12	0	0	0	0	1.160	1.920	.980	0.70				
I27,J9	0	0	0	.100	1.920	.500	.180					
I27,J11	0	0	0	0	-	-	.460					
I29,J6		0	0	0	1.340	.720	.220	0				
I23,J13	0	0	-	.650	.300							
I22,J15					.140							

TABLE C2-1b

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 25 September 1979

(1-Minute Grab Samples)

	HOUR											
LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
131,J10						.840						
129,J12						1.390						
128,J13						1.960						
130,J11						1.780						
131,J9						.290						
131,J8						.320						
131,J7						.250						
132,J6							.310					
131,J7							.180					
131,J6							.460					
129,J7							.170					

TABLE C2-2a

SAMPLER SF_6 CONCENTRATIONS (ug/m³)

DATE: 14 February 1980

(Hour Average Samples)

LOCATION	HOUR 06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
I11,J5	T	T	.052	.262	.082	.055	T	0	.013			
I4,J10		T	T	0	-	0	T	T				
I27,J12	T	T	T	T	T	T	T	T	0			
I12,J13		0	T	T	T	0	0					
I14,J12		T	0	T	T	0	0	T				
I16,J6		.943	.705	-	.257	.050	.067	.151	.036			
I20,J5			0	T	T	T	.042	.066	T			
I17,J8		.081	.400	-	.372	.212	.119	.043	.040			
I24,J8			0	-	0	0	0	T	T			
I13,J7		0	.044	.219	.146	-	.019	T	.022			
I19,J9			.175	.510	.588	.647	.062	.027	.342			
I20,J10		T	-	.291	.502	.843	.053	.016				
I22,J11		T										
I18,J8					.319	.146	-	.177	.061			
J21,J12					T	T	T	-	T			
I17,J13			T	T	T	T	T	T	T			
I20,J14		0										
I30,J5				T	-	-	T	-	0			
I19,J8		.278	-	.265	.190	.028	-	.110				
I14,J8		.020	.137	.464	.238	.153	.066	T	.021			
I13,J11				0								
I10,J11						T	T					
I18,J5			.370									
I19,J5					0				T			

TABLE C2-2b

SAMPLER SF$_6$ CONCENTRATIONS (ug/m^3)

DATE: 14 February 1980

(1-Minute Grab Samples)

LOCATION	HOUR 06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
I14,J16		0		T		T						
I13,J10			0			T						
I8,J12			T	T					T			
I8,J13				0					0			
I13,J11				0					T			
I11,J14			0									
I10,J13						T						
I16,J5		.656										
I18,J5				.148		T	.294		T			
I27,J11						T						
I24,J5		T					T					

TABLE C2-2c

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 15 February 1980

(Hour Average Samples)

LOCATION	HOUR 06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
111,J5		0	T	0	T	T	T	.180	.112	.023		
14,J10			0	0	.044	-	.020	0	T	.045		
127,J12	T	0	T	T	0	-	-	.028				
114,J12		0	T	T	0	0	-	0	0	0		
112,J13		0	T	0	T	0	T	T	0	.084		
116,J6		T	T	T	0	T	.018	.699	-	.242		
120,J5		.346	.046	.450	T	.892	2.119	.783	.350	.444		
117,J8		T	0	T	T	T	-	.763	.222	T		
124,J8		T	.058	T	.133	.108	.164	.394	1.186	.549		
113,J7		T	T	0	T	T	T	.369	.083	.036		
119,J9			T	T	T	T	.272	.769	.619			
120,J10			.017	-	-	-	.512	.512	.760	.982		
121,J12			T	T	T	T	.054	-	.057	.022		
117,J13		0	T	T	T	T	T	.015	T	T		
119,J8		.036	.049	.033	T	.079	.772	-	.684	.538		
114,J8		T	0	0	T	-	.126	.910	.687	.480		
120,J5		.419	-	.025								
118,J5			.014									
115,J4						.019						
116,J6								.770				
113,J11						0						
18,J12						T						

TABLE C2-2d

SAMPLER SF_6 CONCENTRATIONS (ug/m³)

DATE: 15 February 1980 (1-Minute Grab Samples)

LOCATION	HOUR 06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
I18,J5		.407			T		3.164					
I20,J5			T					.869		.582		
I30,J5					0	0		T	.025	.127		
I13,J11		0	0		0			T		0		
I8,J12		.056	0		0					T		
I8,J13		T	0		0				0			
I11,J16				0					0			
I14,J16				0						0		
I19,J13								.047		.035		
I20,J14								.022		T		
I13,J4					T							
I20,J2						1.246						
I22,J11								.375				
I24,J5			T									
I27,J11				0								

TABLE C2-2e

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 16 February 1980

(Hour Average Samples)

LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
	HOUR											
111,J5	.068	.031	.124	-	.181	.184	.071	.035	.057	.045		
14,J10	.058	.286	.475	.041	.105	.133	.072	.062	.047	.028		
127,J12	.050	.043	.056	.157	.251	.282	.356	.894	1.449	.295		
112,J13		.028	.033	-	.215	.200	.160	.060	.077	.020		
114,J12		.042	.343	.427	.310	.333	.307	.109	.050	.038		
113,J11		.089	.462	.426	.398	-	-	.099	.027	.048		
110,J11		.348	.027	.024	.033	-	-	.033	.016	.024		
116,J6	.029	.314	.178	.392	.144	.084	.064	.088	.103	.054		
120,J5	.233	1.465	.053	.563	.166	.095	.060	.450	1.791	.090		
117,J8	.050	.265	.380	.574	-	.241	.282	.072	.075	.100		
124,J8	.059	.049	.045	.491	.524	-	1.285	.261	.284	.338	1.268	.305
113,J7	.034	.044	.200	.204	.292	.218	.216	.044	.034	.051		
119,J9	.201	.435	1.639	.269	.467	.203	-	.221	.078	.381	-	2.231
120,J10	.176	.297	.455	.917	.603	.201	.259	.254	-	.427	-	2.691
121,J12	.054	.189	-	.236	.233	.226	.201	-	.674	1.036	.526	.506
117,J13	.077	.131	.222	.321	.185	.267	.330	.202	.074	.057	.063	.061
119,J8	.074	-	.206	.541	.522	.282	.337	.220	.136	.148		
114,J8	.033	.120	.344	.371	.310	.295	.284	.085	.034	.046		
118,J8	.040	.224	.355	.498	.418	.253	-	-	.039	.090		
120,J5			.314									
116,J6			.242	-	-	.089						
118,J5						.069						
130,J5	.056	.053	-	.145	.471	.176	.192	-	.124	.136		

TABLE C2-2f

SAMPLER SF$_6$ CONCENTRATIONS (ug/m^3)

DATE: 16 February 1980

(1-Minute Grab Samples)

	HOUR											
LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
117,J13		.208									.146	
119,J13		.273									.063	
116,J6	.017				.118			.082		.048		
118,J5		1.187	.062		.080			.116				
120,J5		.334		.291					2.845			
122,J5							.403					
111,J1									.044			
127,J11										.280		
122,J11										.850		
122,J11										.841		
117,J14											.182	
113,J4							.104		.103			
129,J6				.238								
128,J5				.665								
124,J4				.629								
123,J5				.532								
122,J2				.651								
121,J2				.402								
117,J4						.093						
124,J5										.124		

TABLE C2-2g

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 17 February 1980

(Hour Average Samples)

	HOUR										
LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
I11,J5			.085	.249	.902	.549	.326	1.106	.835			
I16,J6			.019	1.442	1.496	2.646	2.237	.829	.298			
I4,J10			.141	.172	.262	.403	.442	.411	1.008			
I12,J13			.100	.095	.128	.166	.228	.596	.397			
I17,J8			.783	.747	1.504	1.589	1.086	2.604	.183			
I13,J7			.142	.251	1.122	.682	.587	1.035	.683			
I27,J12			.084	.079	.072	.094	.137	.048	.050			
I30,J5			.139	.103								
I20,J14					.139	.077	-	.215				
I19,J9			.827	1.317	1.554	1.289	1.560	1.186	1.108			
I17,J13			.138	.580	.387	.308	.285	.186	.274			
I21,J12			.249	.264	.197	.310	.903	.496	.133			
I22,J13					.193	.201	1.423	.771	.269			
I20,J10			1.081	1.498	1.095	1.356	1.557	1.254	1.495			
I18,J8				.436	.946	-	-	1.582	.150			
I14,J8			.183	.286	.896	1.139	T	.995	.470			
I24,J8			.133	.145	.085	.102	.351	.055	.049			
I19,J8			.510	.305								
I20,J5			.034	.039	.128	1.092	.742	.107	2.976			
I18,J5				.186	-	-	.652					
I10,J11			.133	-	.211	-	.272	.821				
I13,J11					.776	-	.197	.327				
I14,J12			.230	1.035	.613	.206	.204	.350	.312			

TABLE C2-2h

SAMPLER SF_6 CONCENTRATIONS (ug/m^3)

DATE: 17 February 1980

(1-Minute Grab Samples)

LOCATION	06-07	07-08	08-09	09-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18
	HOUR											
122, J11			.209	.220								
122,J13			.150									
117,J14				.165	.098							
120,J14				.152								
117,J13				.115								
117,J15						.044						
124,J3						.044		.049				
122,J5						.155		.072				
130,J5							.050					
122,J1								.061				
123,J11								.103				
115,J4			.017			.577						
116,J6			.034			1.041		1.188				
120,J5					.083		.861		.409			
119,J5									1.712			
113,J11									.292			
110,J11									.301			
14,J10									.140			

TABLE C2-3a

SAMPLER SF_6 CONCENTRATIONS (µg/m³)

DATE: 24 September 1980 (Hour Average Samples)

	HOUR						
LOCATION	07-08	08-09	09-10	10-11	11-12	12-13	13-14
I11, J5	-	.021	.023	.018	.020	.020	.017
I17, J8	.092	.209	.029	.021	T	.014	.017
I24, J8	.026	-	-	.038	.031	-	-
I29, J6	-	T	.046	.044	.029	.015	-
I27, J12	.143	.066	.225	.181	.848	1.216	.922
I27, J11	-	-	.103	.171	.114	.165	-
I16, J6	-	-	T	-	-	-	-
I31, J5	-	-	-	-	-	-	T
I20, J5	T	T	-	.018	.018	.021	T
I19, J9	.020	.034	.048	.055	.055	.037	.028
I17, J13	-	T	T	T	.014	-	-
I27, J9	-		-	-	-	-	T T
I33, J8	-	T	T	T	.014	T	.017
I21, J11	.015	.014	.015	-	.072	.060	.040
I28, J8	-	-	-	-	-	.014	.017

TABLE C2-3b

SAMPLER SF_6 CONCENTRATIONS ($\mu g/m^3$)

DATE: 24 September 1980 (Grab Samples)

	HOUR						
LOCATION	07-08	08-09	09-10	10-11	11-12	12-13	13-14
I23, J13				.225			
I18, J13				.115			
I20, J14				.087			
I29, J8						.048	
I30, J7						T	
I20, J14		.025					
I19, J13		.025					
I29, J13					.879		.112
I31, J10						T	.017
(Helicopter Grab Samples)							
I18, J13, K9		2.609					
I24, J13, K7				4.338			

TABLE C2-3c

SAMPLER SF_6 CONCENTRATIONS (μg/m³)

DATE: 25 September 1980 (Hour Average Samples)

LOCATION	HOUR 07-08	08-09	09-10	10-11	11-12	12-13	13-14
I11, J5	.049	.057	.038	.031	.034	-	-
I17, J8	.067	.034	.025	.021	.020	T	-
I24, J8	.120	.299	.158	.347	.288	.021	.021
I29, J6	.071	.097	.067	.270	.331	.031	.060
I27, J12	.086	-	-	.627	.299	.287	.873
I27, J11	.135	.083	.130	.149	.468	.428	.252
I20, J5	T	.021	.041	-	.066		
I33, J6	-	-	-	-	-	.746	.597
I19, J9	-	.032	.049	.069	.064	.051	.074
I21, J12	.052	.356	.646	1.405	1.003	1.131	-
I17, J13	-	-	-	-	.658	1.236	1.028
I33, J8	.037	.077	.035	.026	.508	3.984	1.884
I21, J11	.046	.101	.290	.347	.298	.172	.126

TABLE C2-3d

SAMPLER SF_6 CONCENTRATIONS (μg/m³)

DATE: 25 September 1980 (Grab Samples)

	HOUR						
LOCATION	07-08	08-09	09-10	10-11	11-12	12-13	13-14
I23, J13			.230				
I18, J13				.374			
I25, J12						.469	
I25, J12						.190	
I23, J5		T					
I22, J6		.021					
I13, J7			.023				
I31, J5				.044			
I23, J6				.101			
I28, J8							.031
I31, J10							1.316
I23, J13			.425				
I25, J12			.383				
I28, J8				.092			
I26, J9				.196			
I25, J10					.118		
I31, J7					.565		
I37, J3					.040		
I31, J5						.383	

TABLE C2-3d - (Cont'd)

	HOUR						
OCATION	07-08	08-09	09-10	10-11	11-12	12-13	13-14
38, J5							.301
36, J5							.543
31, J5							.225
27, J5							.097
24, J4							.066
31, J5							.038
(Helicopter Grab Samples)							
26, J9, K7				4.525			
25, J11, K7						T	
25, J9, K6							3.404
30, J6, K5							.161
27, J10, K5							.736

TABLE C2-4a

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 2, I13 J7

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02					
03					
04					
05					
06					
07					
08					
09					
10		0.10			
11		0.092			
12				0.14	0.33
13					0.074
14			0.13	0.025	0.12
15			0.20	0.086	0.19
16	0.10				
17				0.025	
18	0.037				
19				0.043	
20					
21				0.24	
22				0.28	
23					
24			0.33		

TABLE C2-4b

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (μg/m³)
MEASURED AT STATION NO. 3, I17 J8

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02					0.08
03					
04					0.092
05					
06					0.16
07					
08					0.22
09		0.15			
10		0.27			
11		0.10			0.037
12				0.10	0.025
13			0.20		
14				0.11	
15	0.061				0
16			0.49	0.092	
17	0.061				
18			0.33	0.043	
19					
20			0.14	0.037	
21					
22			0.33	0.12	
23					
24			0.42		

TABLE C2-4c

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 5, I24 J8

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02					
03					
04					
05					
06					
07					
08					
09		0.092			
10		0.22			
11					
12					
13					
14		0.36	0.77		
15		0.21	0.29		
16		0.043			
17					
18					
19	0.21				
20					
21					
22					
23					
24			0.19		

TABLE C2-4d

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 7, I29 J5 (GVRD T9)

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02		0.48		0.074	0.018
03					
04		0.27		0.10	0.037
05					
06		0.37		0.031	0.043
07					
08		0.049		0.043	0.037
09					
10				0.043	
11					
12			0.45		0.061
13		0.10			
14	0.049	0.12	0.56	0.043	0
15	0.12	0.34			
16	0.092	0.33	0.36	0.061	0
17	0.092	0.025			
18	0.049		0.27	0.08	
19					
20			0.31	0.018	
21					
22	0.049		0.23	0	
23					
24	0.17		0.068	0.043	

TABLE C2-4e

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (μg/m³)
MEASURED AT STATION NO. 8, I27 J12 (GVRD T7)

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01				0.14	
02					0.043
03				0.11	
04					0.049
05					
06					0.043
07					
08					
09					
10		0.012	1.76	0.049	
11		0.092	1.23		0.018
12		0.031		0.061	
13		0	1.40		
14	1.06	0.098		0.049	
15	0.60	0.22			
16	0.37	0.21	1.17	0.043	
17	0.068				
18	0.049		0.91	0.055	
19					
20			0.63	0.061	
21	0.021				
22				0.025	
23			0.098		
24				0	

TABLE C2-4f

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 9, I27 J11

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01				0.19	
02					
03				0.23	
04					
05					
06					
07					
08					
09					
10			0.79		
11		0.049			
12		0.068	1.04		
13		0.025			
14		0.043	0.36		
15		0.51			
16		0.56	0.33		
17	0.086	0.59			
18	0.14	0.62	0.16		
19	0.08				
20	0.068				
21	0.18				
22					
23					
24					

TABLE C2-4g

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (μg/m³)
MEASURED AT STATION NO. 11, I20 J5

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02		0.19			
03					
04		0.018			0.025
05					
06		0.012			
07					
08					0.086
09		0.098			
10		0.12			
11		0.086			
12		0.16		0	0
13		0.15			0.043
14				0.037	0
15			0.092		
16	0.061			0.049	
17			0.055		
18	0.074		0.39	0.086	
19					
20	0.025			0.012	
21					
22	0.092			0.018	
23					
24	0.049		0	0	

TABLE C2-4h

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (μg/m³)
MEASURED AT STATION NO. 13, I21 J12

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					
02		0.63			
03					
04			0.97		
05					
06		0.56	1.24		
07					
08		0.23			
09					
10					
11					
12					
13		0.16			
14		0.11			
15		0.12			
16		0.098			
17					
18					
19					
20					
21					
22	0.45	0.41			
23					
24					

TABLE C2-4i

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 14, I17 J13

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01					0.24
02		0.068			0.65
03					
04		0.17			0.87
05					
06		0.086			
07					
08		0.031			
09					
10					
11				0.25	
12					
13				0.36	
14					
15					0.031
16	0.17				
17				0.061	
18					
19				0.14	
20				0.85	
21					
22	0.50			0.10	
23					
24	0.37				

TABLE C2-4j

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS ($\mu g/m^3$)
MEASURED AT STATION NO. 15, I33 J8

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01		0.018		0.15	
02					
03		0.018		0.043	
04					
05		0		0.068	
06					
07				0.061	
08		0.031			
09		0.025			
10		0.092	0.56		
11		0.14			0
12		0.012	0.39		
13		0		0.31	0.061
14		0		0.31	
15		0.006	1.07		
16		0.17			
17	0.13	0.055		0.025	
18	0.061				
19	0.092			0.031	
20	0.22			0.074	
21	0.074		0.12		
22				0	
23	0		0.092		
24				0	

TABLE C2-4k

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (µg/m³)
MEASURED AT STATION NO. 16, I38 J3

DATE & TIME	3 October	4 October	5 October	6 October	7 October
01				0.15	
02					
03				0.068	
04					
05		0.025		0.16	
06					
07				0.092	
08		0.12			
09		0.037			
10		0.025			
11		0.031	0.42		
12					
13	0.17	0.031	0.23		0
14	0.098	0.049		0.018	
15	0.098	0.025	1.69		0
16	0.025	0.12			
17	0.037	0.14	0.40		
18		0.018			
19	0				
20					
21	0		0.22		
22					
23	0.006		0.14		
24					

TABLE C2-5

BURRARD THERMAL GENERATING PLANT
TRACER GAS STUDY
SF_6 CONCENTRATIONS (ppt)

GVRD Station	Date and Time	28 Sep 1982	29 Sep 1982	30 Sep 1982	5 Oct 1982	7 Oct 1982
T4	07-08	11	6	2	0	
	08-09	9	6	1	21	T
	09-10	10	720	2	160	2
	10-11	5	57	3	195	1
	11-12	5	11	5	82	
	12-13	6	3	3	33	
	13-14	5				
T5	07-08	3	5	4		
	08-09	4	4	3	13	
	09-10	3	3	5	115	2
	10-11	2	5	5	135	2
	11-12	3	T	4	20	
	12-13	2	3	18	1	
	13-14	5				
T6	07-08	6	4	3		
	08-09	4	7	3	52	4
	09-10	2	3	4	160	4
	10-11	3	6		105	2
	11-12	2	3	2	40	
	12-13	3	2	5	35	
	13-14	4				
T7	06-07			9		
	07-08	2	3	8	3	
	08-09	1	2	2	0	
	09-10	3	380	410	17	5
	10-11	1	390	215	12	8
	11-12	2	79	104	4	
	12-13	5	170	35	2	
	13-14	3	110			
	14-15		T			
	15-16		20			

TABLE C2-5 - (Cont'd)

GVRD Station	Date and Time	28 Sep 1982	29 Sep 1982	30 Sep 1982	5 Oct 1982	7 Oct 1982
T9	07-08	3	7	2		
	08-09		7	8	2	2
	09-10	4	24	11	2	1
	10-11	4	73	9	2	
	11-12	6	104	3	2	
	12-13		5	4	1	
	13-14	4				
	14-15					
	15-16					
T10	07-08			6		
	08-09		2	5	2	1
	09-10	3	8	5	1	4
	10-11	2	5	3	1	6
	11-12	5	50	3	1	
	12-13	16	7		2	
	13-14	4	2			
	14-15	3	0			
	15-16	4	5			
T15 Eagle Ridge	06-07			5		
	07-08	5	3	9	0	
	08-09	2	3	9	0	2
	09-10	T	4	7	2	15
	10-11	2	4	9	2	18
	11-12	T	55	3	2	
	12-13	2	5	4	1	
	13-14	3	17			
	14-15		14			
	15-16		13			
T14 SFU Burnaby Mountain	07-08	2	5	4	T	
	08-09	5	2	3	0	2
	09-10	5	4	10	2	1
	10-11	5	28	3	1	
	11-12	5	8	7	0	
	12-13	10	3	3	1	
	13-14					
	14-15					

APPENDIX D

COMPUTER MODELLING ASSESSMENT

D1	MODELLING ASSESSMENT FOR 25 SEPTEMBER 1979, 14 TO 17 FEBRUARY 1980 AND 24 AND 25 SEPTEMBER 1980
D2	COMPUTER SIMULATION OF LAND BREEZE - SEA BREEZE CONDITION
D3	COMPUTER SIMULATION OF IMPACTS OUTSIDE OF BURRARD INLET

APPENDIX D1

MODELLING ASSESSMENT FOR 25 SEPTEMBER 1979, 14 TO 17 FEBRUARY 1980 AND 24 AND 25 SEPTEMBER 1980

Figure D1-1	Topographic Outline of the Burrard Inlet IMPACT Grid
Table D1-1	Maximum Hourly Ground Level NO_x Concentrations Determined by Computer Model
Figure D1-2	Hourly Averaged Concentrations of Tracer Gas 25 September 1979
Figure D1-3	Hourly Averaged Concentrations of Tracer Gas 14 February 1980
Figure D1-4	Hourly Averaged Concentrations of Tracer Gas 15 February 1980
Figure D1-5	Hourly Averaged Concentrations of Tracer Gas 16 February 1980
Figure D1-6	Hourly Averaged Concentrations of Tracer Gas 17 February 1980
Figure D1-7	Hourly Averaged Concentrations of Tracer Gas 24 September 1980
Figure D1-8	Hourly Averaged Concentrations of Tracer Gas 25 September 1980

Figure D1-1

Topographic outline of the Burrard Inlet IMPACT grid showing the locations of the GVRD Continuous Air Quality Monitoring Stations, anemometer sites, tethersonde and minisonde locations

LEGEND:

T4	Kensington Park
T4A	Burnaby Mountain (BCMPA)
T5	Confederation Park
T6	Beach Works Yard
T7	Anmore School
T9	Rocky Point Park

M - Minisonde Base Lines

A - Anemometer Sites

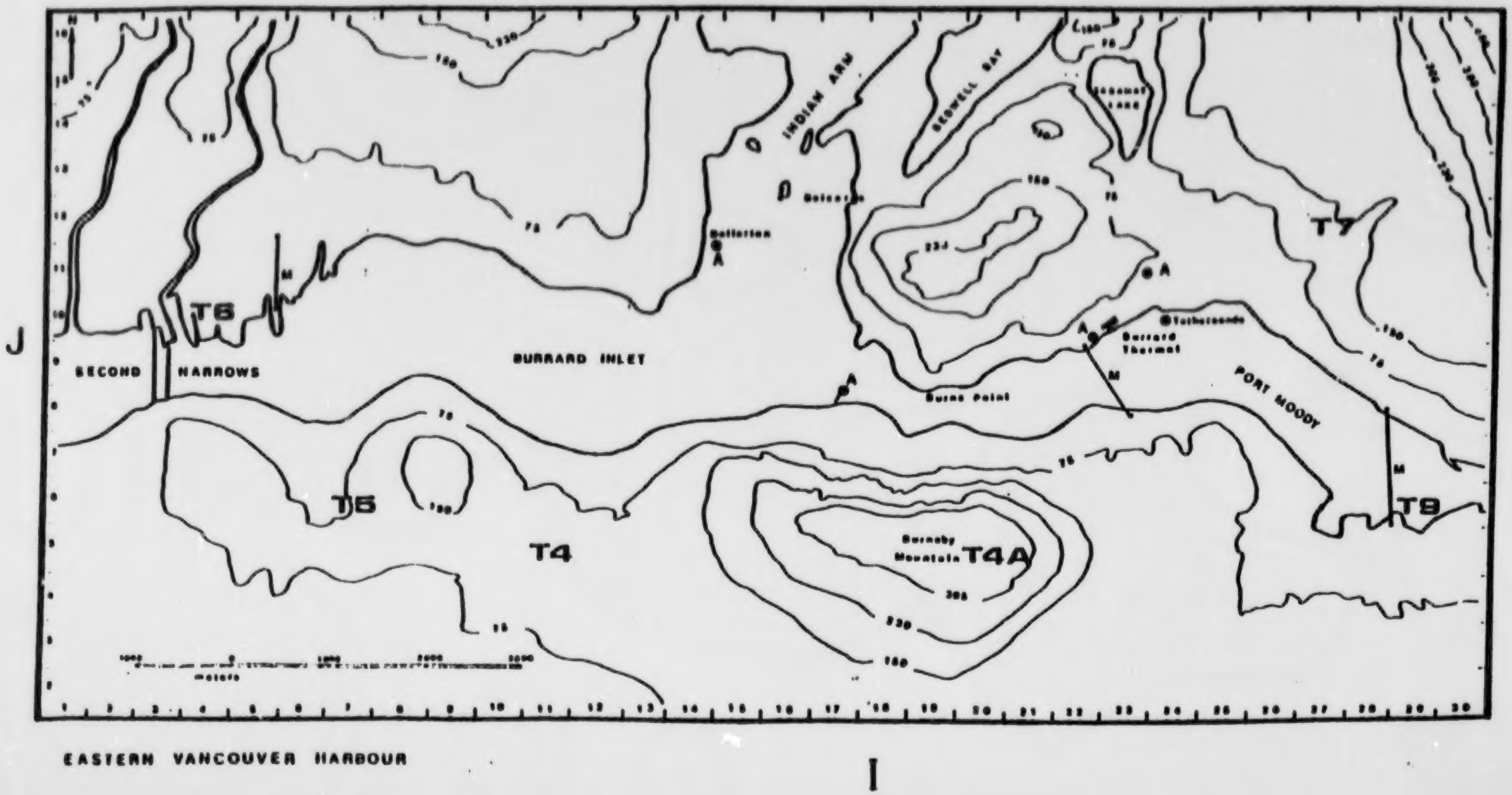

SECOND
NARROWS
BURRARD INLET
INDIAN ARM
BEDWELL BAY
Sasamat Lake
Belcarra
Dollarton
Burns Point
Burrard Thermal
Tethersonde
PORT MOODY
Burnaby Mountain
T4
T4A
T5
T6
T7
T9
M
A
75
150
230
305
metres
J
I
EASTERN VANCOUVER HARBOUR

TABLE D1-1

MAXIMUM HOURLY GROUND LEVEL NO_x CONCENTRATIONS DETERMINED BY COMPUTER MODEL

Date	Time	Maximum Modelled SF_6 Conc.*3 µg/m³	 Location*2 (I, J)	NO_x Concentrations Computed*1 From SF_6 Results (µg/m³)
14 Feb 1980	0700-0800	0.724	19, 5	38
	0800-0900	0.677	15, 4	36
	0900-1000	0.456	19, 9	24
	1000-1100	0.165	4, 4	9
	1100-1200	0.146	11, 5	8
	1200-1300	0.509	19, 10	27
	1300-1400	0.653	18, 10	35
	1400-1500	0.275	18, 5	15
15 Feb 1980	0700-0800	0.803	23, 5	51
	0800-0900	1.550	22, 4	98
	0900-1000	1.780	22, 4	110
	1000-1100	1.320	22, 3	83
	1100-1200	0.146	21, 1	9
	1200-1300	0.167	19, 4	11
	1300-1400	0.426	15, 6	27
	1400-1500	0.529	7, 4	34
	1500-1600	1.040	19, 11	66
16 Feb 1980	0600-0700	0.168	21, 5	10
	0700-0800	2.420	21, 12	140
	0800-0900	2.430	19, 12	140
	0900-1000	2.010	19, 11	120
	1000-1100	1.710	21, 5	100
	1100-1200	1.490	21, 4	88
	1200-1300	2.300	25, 7	140
	1300-1400	1.700	25, 7	100
	1400-1500	1.700	24, 13	100
	1500-1600	3.860	25, 16	230
	1600-1700	1.530	22, 15	90
	1700-1800	2.370	20, 6	140
17 Feb 1980	0800-0900	2.890	20, 11	180
	09001000	9.410	19, 11	570
	1000-1100	9.200	19, 11	560
	1100-1200	7.770	19, 10	470
	1200-1300	3.800	20, 10	230
	1300-1400	4.090	19, 10	250
	1400-1500	5.550	20, 10	340

TABLE D1-1 - (Cont'd)

Date	Time	Maximum Modelled		NO_x Concentrations
		SF_6 Conc.*3 µg/m³	Location*2 (I, J)	Computed*1 From SF_6 Results (µg/m³)
25 Sept 1979	0600-0700	0.118	23, 10	13
	0700-0800	6.170	22, 12	660
	0800-0900	13.300	21, 12	1400
	0900-1000	12.900	20, 12	1400
	1000-1100	4.030	22, 12	440
	1100-1200	3.940	27, 16	440
	1200-1300	1.890	30, 12	210
24 Sept 1980	0700-0800	0.01	21, 12	1
	0800-0900	0.09	21, 12	5
	0900-1000	2.04	21, 12	120
	1000-1100	1.17	27, 15	67
	1100-1200	1.38	36, 14	79
	1200-1300	1.24	39, 12	71
	1300-1400	1.30	39, 11	75
25 Sept 1980	0700-0800	0.01	29, 10	1
	0800-0900	0.27	31, 9	15
	0900-1000	1.37	31, 10	76
	1000-1100	4.56	27, 13	260
	1100-1200	4.06	29, 12	230
	1200-1300	3.25	35, 10	180
	1300-1400	2.52	30, 9	140

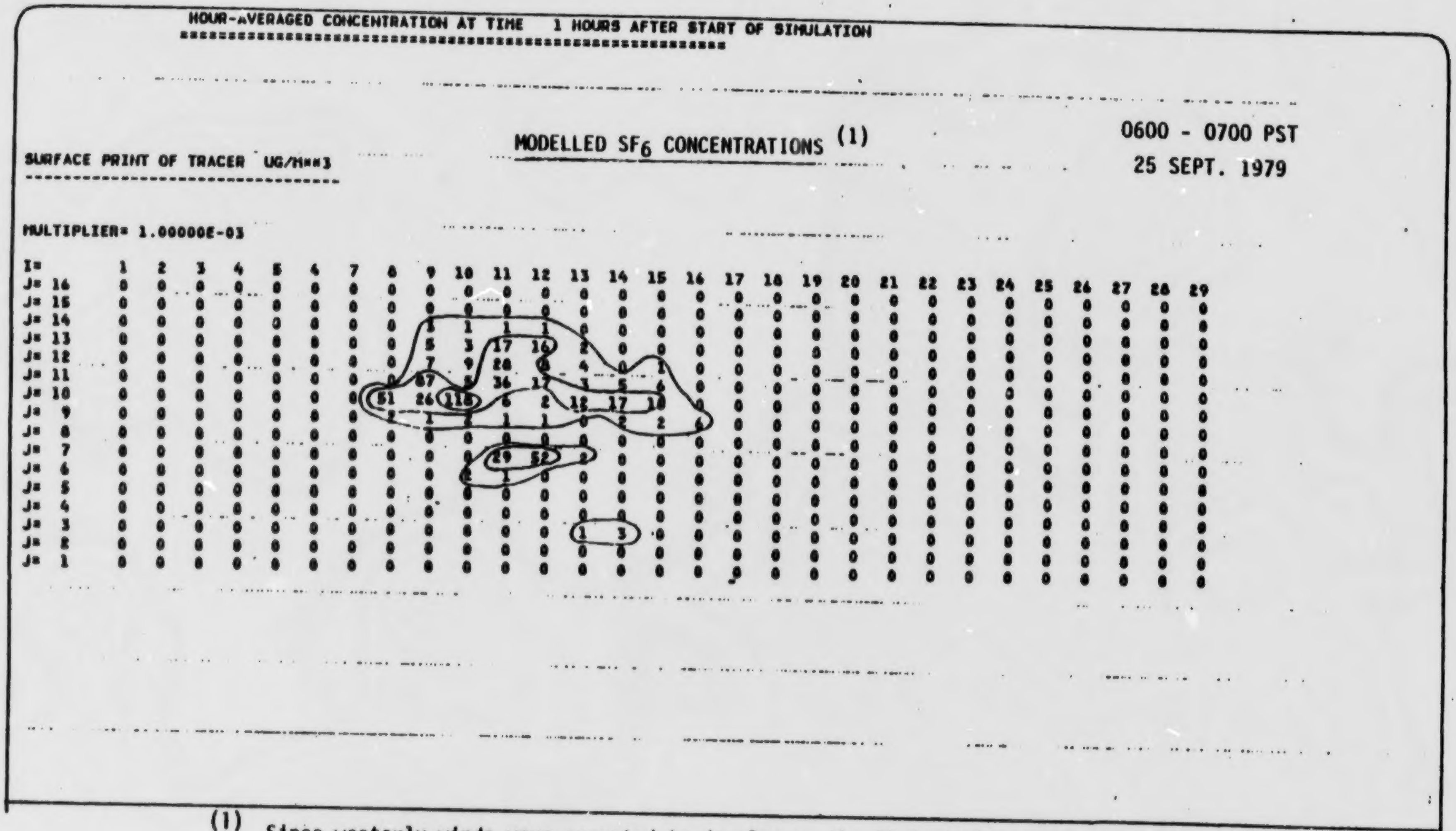
---

*1 NO_x concentrations refer to normal maximum load, 600 MW (reference conditions are 25°C and 760 mm Hg).

*2 Locations I19 - 24, J9 - 12 are close to the powerplant on rising terrain and result in modelled values that are more uncertain than predictions further from the plant.

*3 SF_6 concentrations are at ambient temperature and pressure.

FIGURE D1-2a



```
HOUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
==================================================================

                                        MODELLED SF6 CONCENTRATIONS (1)              0600 - 0700 PST
SURFACE PRINT OF TRACER  UG/M**3                                                      25 SEPT. 1979
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MULTIPLIER= 1.00000E-03

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   5   3  17  16   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   0   0   0   7   9  28 [illegible] 4 0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   0   0   0   0   0  87   5  36  17   3   5   6   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 10    0   0   0   0   0   0   0  51  26 115   6   2  12  17  18   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  9    0   0   0   0   0   0   0   2   1   2   1   1   0   2   2   6   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  8    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  7    0   0   0   0   0   0   0   0   0   0  29  52   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6    0   0   0   0   0   0   0   0   0   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3    0   0   0   0   0   0   0   0   0   0   0   0   1   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```
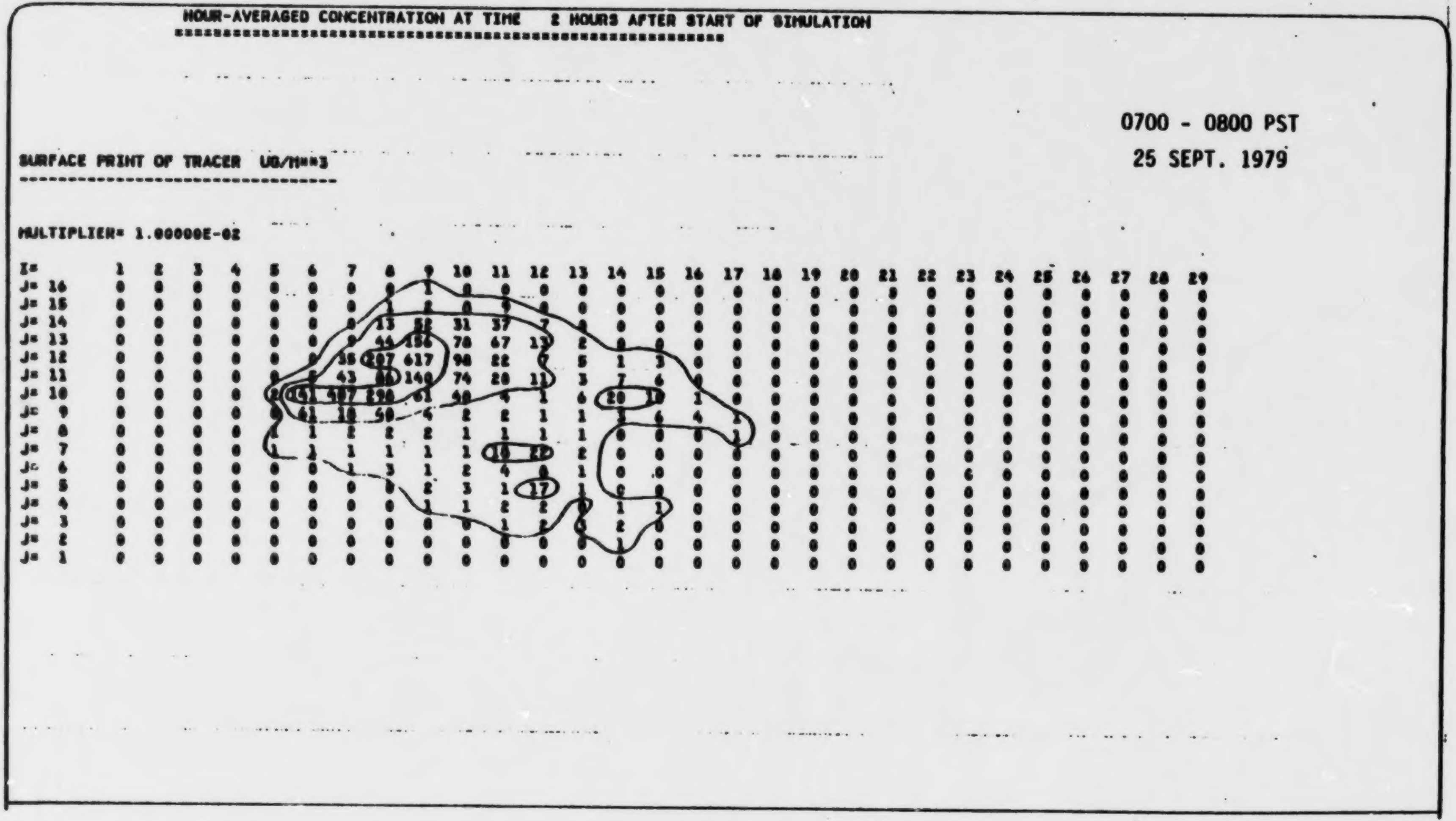

(1) Since westerly winds were expected to develop on the 25 September 1979, the model grid was shifted 13 cells eastward in order that impacts in the simulation would occur centrally in the grid. Thus the BTGP is located in cell I10, J10.

FIGURE D1-2b



0700 - 0800 PST
25 SEPT. 1979

```
        HOUR-AVERAGED CONCENTRATION AT TIME   2 HOURS AFTER START OF SIMULATION
        ================================================================

SURFACE PRINT OF TRACER  UG/M**3
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MULTIPLIER= 1.00000E-02

I=          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16       0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15       0   0   0   0   0   0   0   1   2   0   9   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14       0   0   0   0   0   0   0  13  52  31  37   7   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13       0   0   0   0   0   0   9  44 156  78  67  13   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12       0   0   0   0   0   0  35 207 617  98  22   7   5   1   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11       0   0   0   0   0   2  43  86 140  74  20  11   3   7   6   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 10       0   0   0   0   2 151 507 290  61  90   4   1   6  20  10   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  9       0   0   0   0   0  41  18  50   4   2   2   1   1   3   6   4   1   0   0   0   0   0   0   0   0   0   0   0   0
J=  8       0   0   0   0   1   1   2   2   2   1   1   1   1   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0
J=  7       0   0   0   0   1   1   1   1   1   1  16  22   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6       0   0   0   0   0   0   1   3   1   2   4   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5       0   0   0   0   0   0   0   0   2   3   1  17   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4       0   0   0   0   0   0   0   0   1   1   2   2   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3       0   0   0   0   0   0   0   0   0   0   1   2   0   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2       0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```
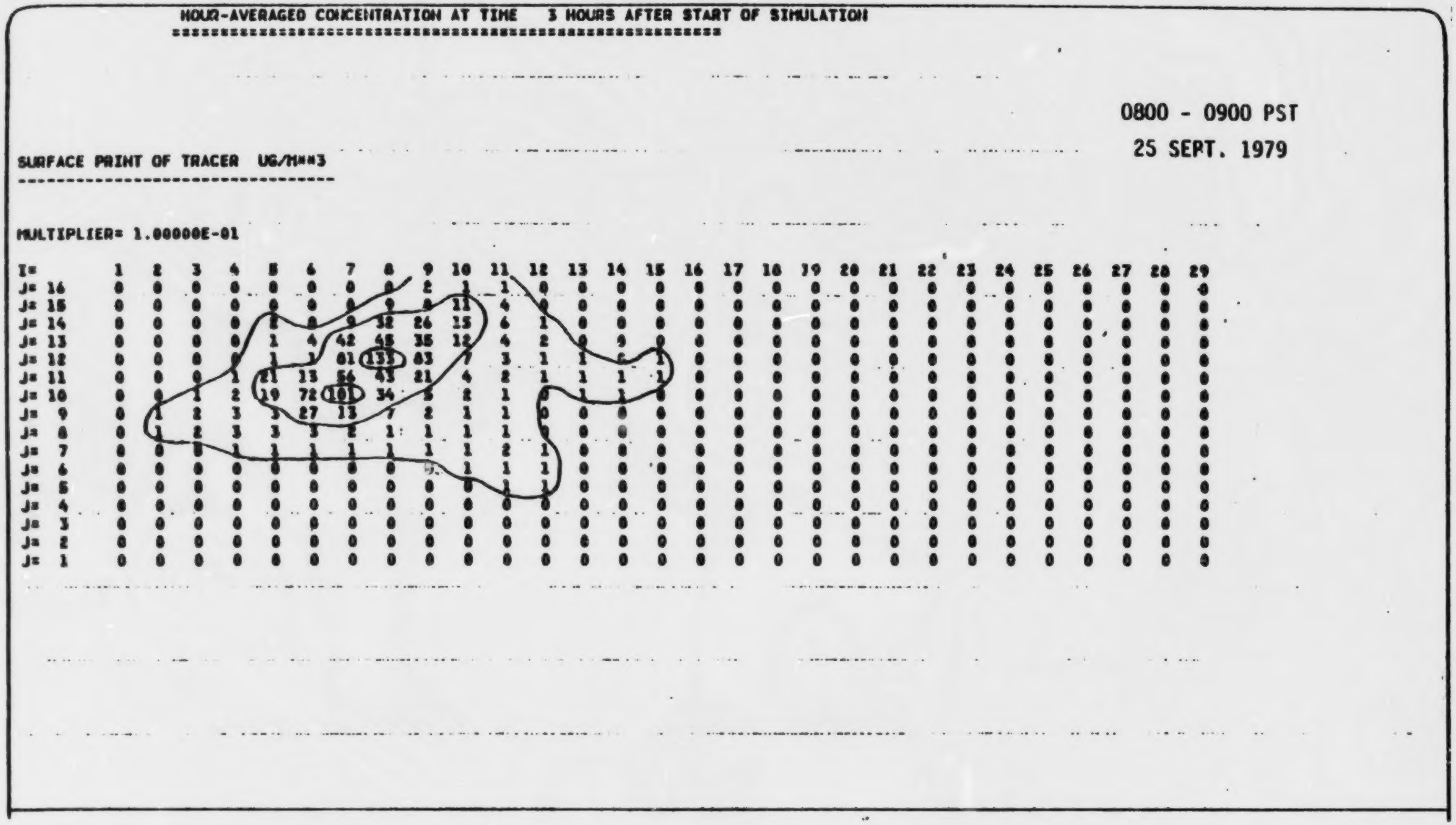

FIGURE D1-2c



```
HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
==========================================================

                                                                       0800 - 0900 PST
SURFACE PRINT OF TRACER  UG/M**3                                       25 SEPT. 1979
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MULTIPLIER= 1.00000E-01

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16    0   0   0   0   0   0   0   0   2   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   9   0  11   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   2   0   9  32  26  15   6   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   1   4  42  45  35  12   4   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   1   1  81 133  83   7   3   1   1   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   1  21  13  56  43  21   4   2   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 10    0   0   1   2  19  72 101  34   5   2   1   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  9    0   1   2   3   3  27  13   7   2   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  8    0   1   2   3   3   3   2   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  7    0   0   0   1   1   1   1   1   1   1   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6    0   0   0   0   0   0   0   0   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5    0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```
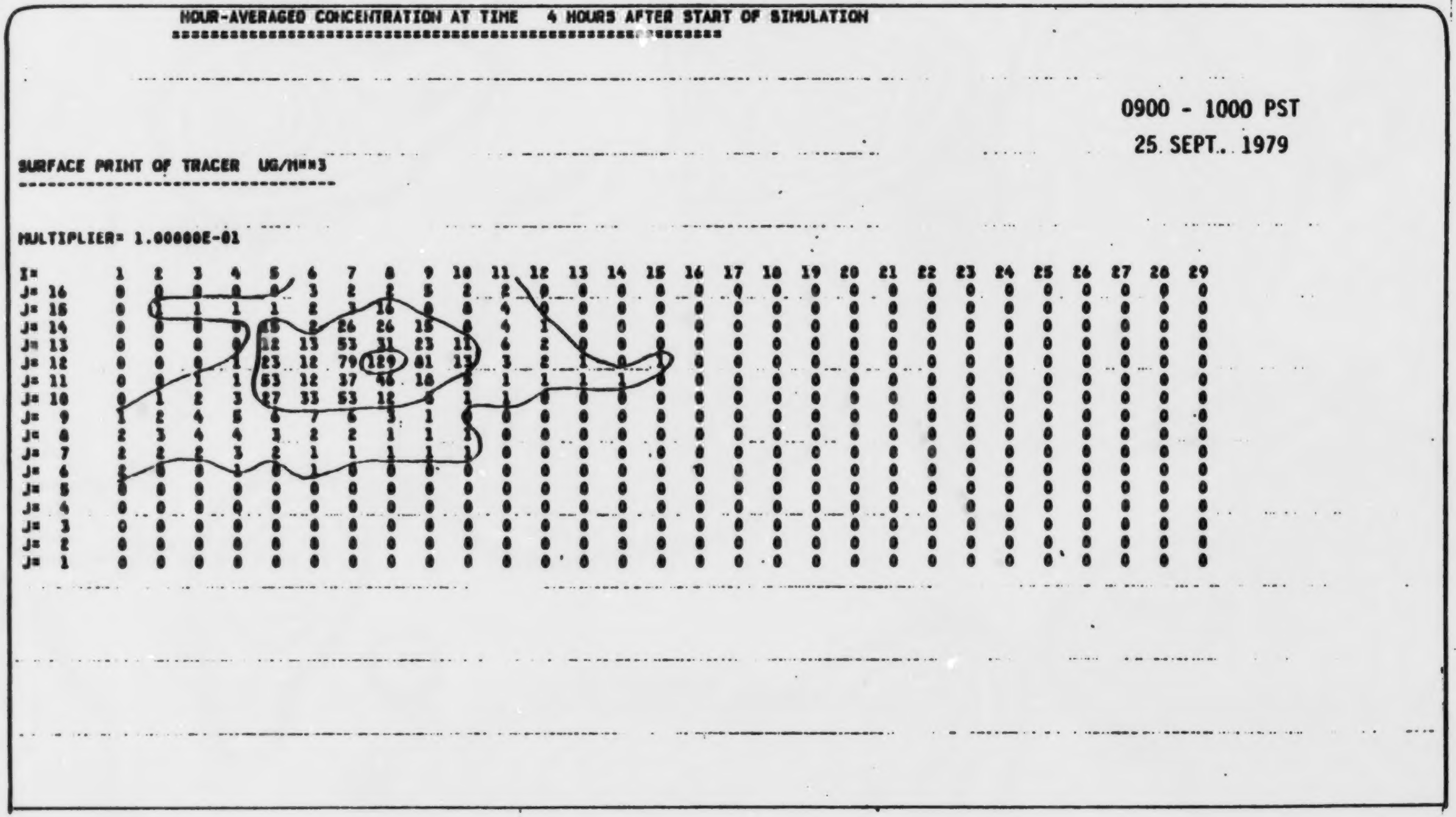
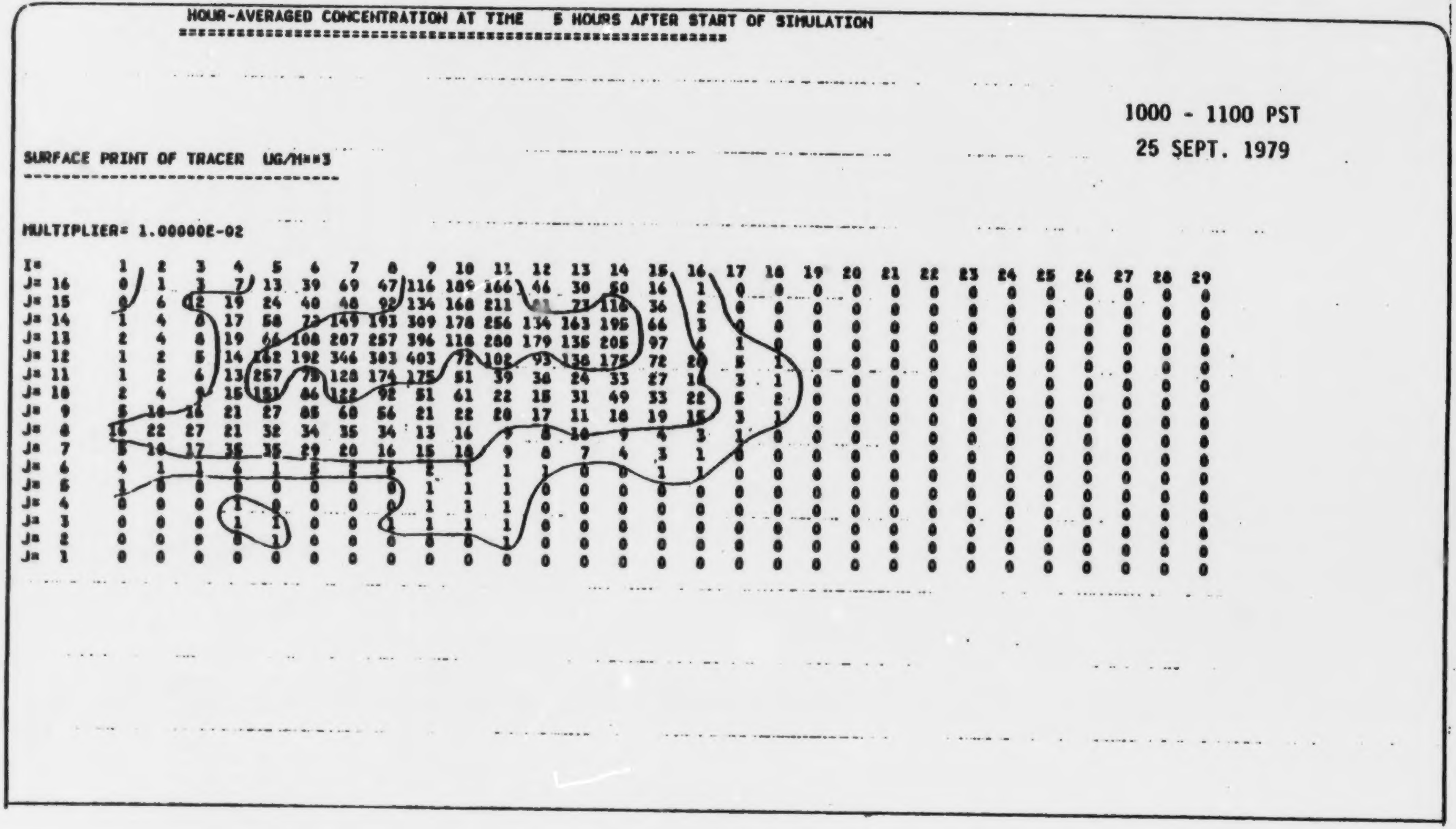

FIGURE D1-2d



```
          HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
          ===================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-01

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16      0   0   0   0   0   3   2   2   5   2   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15      0   1   1   1   1   2   3  16   0   0   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14      0   0   0   0  15   2  26  26  15   0   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13      0   0   0   0  12  13  53  31  23  11   6   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12      0   0   0   1  23  12  79 129  81  13   3   2   1   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11      0   0   1   1  53  12  37  46  18   3   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 10      0   1   2   3  27  33  53  12   6   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  9      1   2   4   5   6   7   6   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  8      2   3   4   4   3   2   2   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  7      2   2   2   3   2   1   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6      2   0   0   1   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

0900 - 1000 PST
25 SEPT. 1979

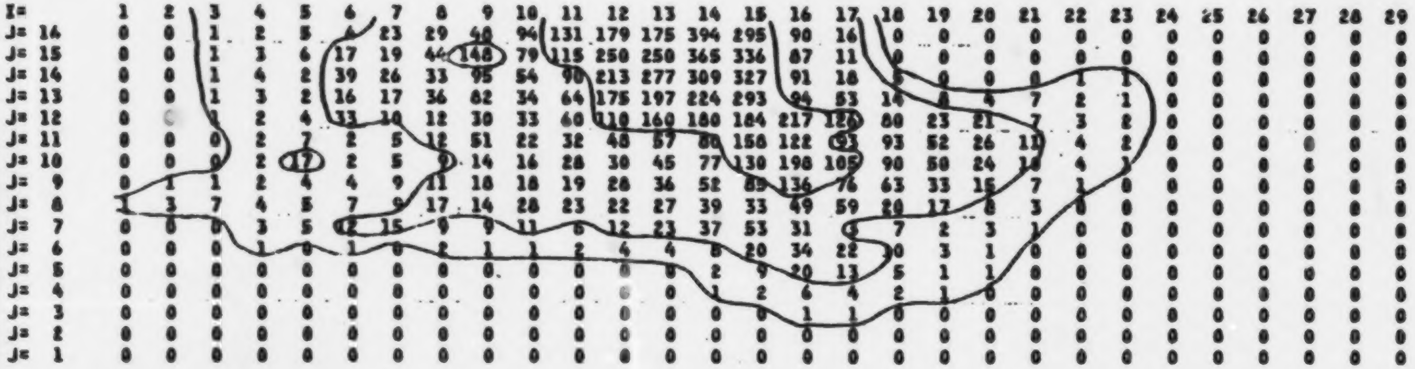
FIGURE D1-2e



```
        HOUR-AVERAGED CONCENTRATION AT TIME    5 HOURS AFTER START OF SIMULATION
        ===========================================================

                                                                              1000 - 1100 PST
SURFACE PRINT OF TRACER  UG/M**3                                              25 SEPT. 1979
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16     0   1   3   7  13  39  69  47 116 189 166  46  30  50  16   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   6  12  19  24  40  48  92 134 168 211 [illegible]  73 116  36   2   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     1   4   8  17  58  72 149 193 309 178 256 134 163 195  66   3   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     2   4   8  19  66 108 207 257 396 118 280 179 135 205  97   6   1   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     1   2   5  14 162 192 346 303 403  72 102  93 136 175  72  20   5   1   0   0   0   0   0   0   0   0   0   0   0
J= 11     1   2   6  13 257  75 128 174 175  51  39  38  24  33  27  18   3   1   0   0   0   0   0   0   0   0   0   0   0
J= 10     2   4   9  15 151  86 122  92  51  61  22  18  31  49  33  22   5   2   0   0   0   0   0   0   0   0   0   0   0
J=  9     5  10  16  21  27  85  60  56  21  22  20  17  11  18  19  15   3   1   0   0   0   0   0   0   0   0   0   0   0
J=  8    16  22  27  21  32  34  35  34  13  16   9   8  10   9   4   3   1   0   0   0   0   0   0   0   0   0   0   0   0
J=  7     5  10  17  35  35  29  20  16  15  18   9   8   7   4   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6     4   1   1   6   1   5   2   6   2   1   1   1   0   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5     1   0   0   0   0   0   0   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4     0   0   0   1   0   0   0   0   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3     0   0   0   1   1   0   0   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   1   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

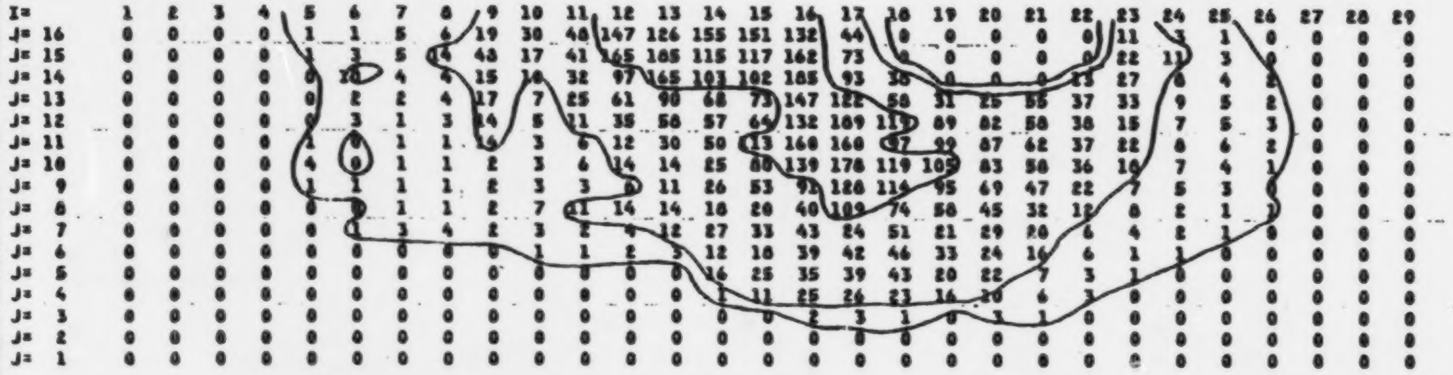
FIGURE D1-2f

1100 - 1200 PST
25 SEPT. 1979



```
HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
======================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16      0   0   1   2   5   6  23  29  40  94 131 179 175 394 295  90  16   0   0   0   0   0   0   0   0   0   0   0   0
J= 15      0   0   1   3   6  17  19  44 148  79 115 250 250 365 336  87  11   0   0   0   0   0   0   0   0   0   0   0   0
J= 14      0   0   1   4   2  39  26  33  95  54  90 213 277 309 327  91  18   5   0   0   0   1   1   0   0   0   0   0   0
J= 13      0   0   1   3   2  16  17  36  82  34  64 175 197 224 293  94  53  14   8   4   7   2   1   0   0   0   0   0   0
J= 12      0   0   1   2   4  33  10  12  30  33  60 110 160 180 184 217 126  80  23  21   7   3   2   0   0   0   0   0   0
J= 11      0   0   0   2   7   2   5  12  51  22  32  48  57  80 158 122  93  93  52  26  11   4   2   0   0   0   0   0   0
J= 10      0   0   0   2  17   2   5   9  14  16  28  30  45  77 130 198 105  90  50  24  10   4   1   0   0   0   0   0   0
J=  9      0   1   1   2   4   4   9  11  18  18  19  28  36  52  85 136  76  63  33  15   7   1   0   0   0   0   0   0   0
J=  8      1   3   7   4   5   7   9  17  14  28  23  22  27  39  33  49  59  20  17   8   3   0   0   0   0   0   0   0   0
J=  7      0   0   0   3   5  12  15   9   9  11   6  12  23  37  53  31   6   7   2   3   1   0   0   0   0   0   0   0   0
J=  6      0   0   0   1   0   1   0   2   1   1   2   4   4   8  20  34  22  10   3   1   0   0   0   0   0   0   0   0   0
J=  5      0   0   0   0   0   0   0   0   0   0   0   0   0   2   9  20  13   5   1   1   0   0   0   0   0   0   0   0   0
J=  4      0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   6   4   2   1   0   0   0   0   0   0   0   0   0   0
J=  3      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0
J=  2      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-2g

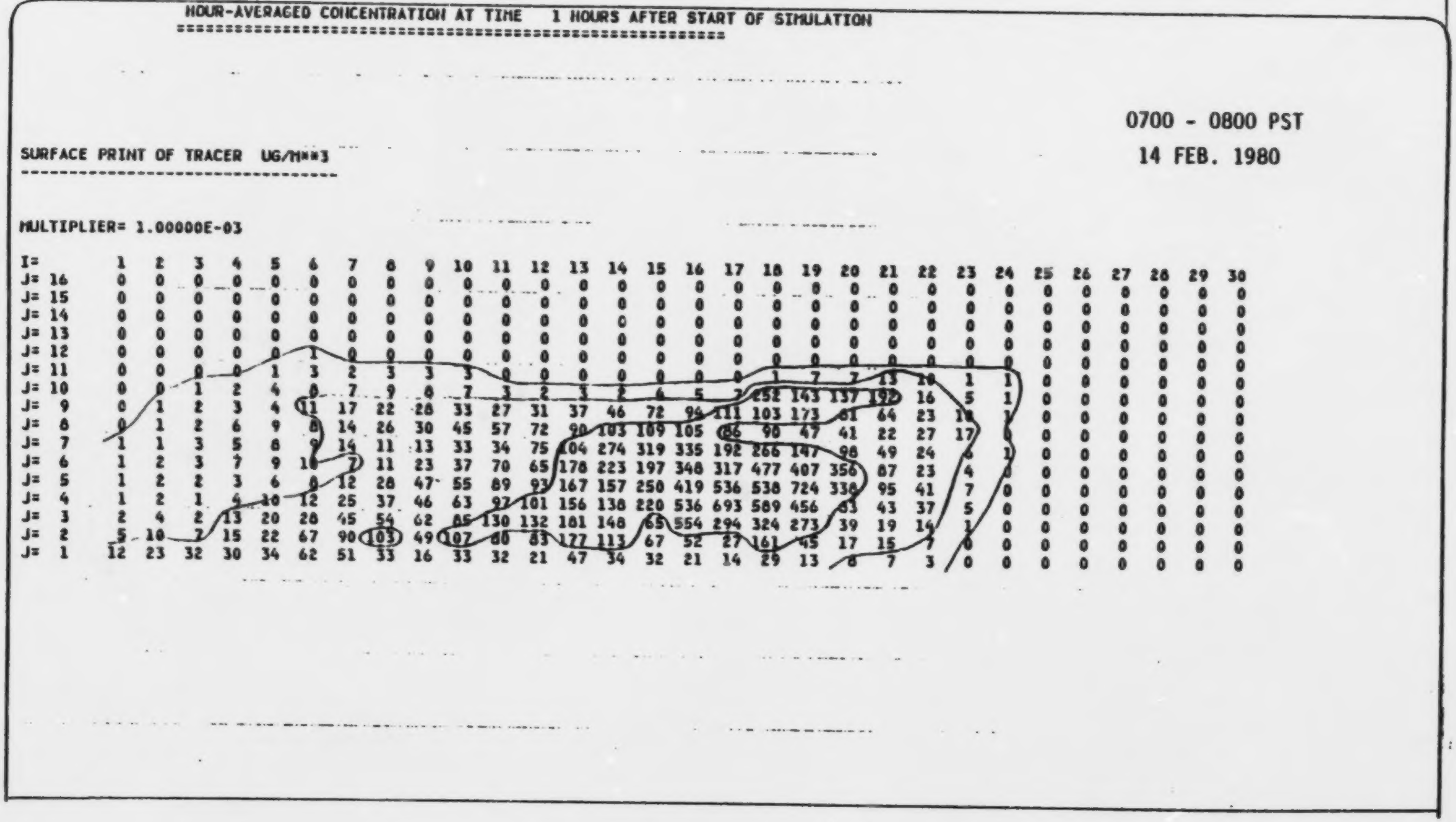


```
          HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
          ==========================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29
J= 16     0   0   0   0   1   1   5   6  19  30  40 147 126 155 151 132  44   0   0   0   0   0  11   3   1   0   0   0   0
J= 15     0   0   0   0   1   3   5  14  43  17  41 165 105 115 117 162  73   0   0   0   0   0  22  11   3   0   0   0   0
J= 14     0   0   0   0   0  10   4   4  15  10  32  97 165 103 102 185  93  30   0   0   0  13  27   8   4   2   0   0   0
J= 13     0   0   0   0   0   2   2   4  17   7  25  61  90  68  73 147 122  58  31  25  55  37  33   9   5   2   0   0   0
J= 12     0   0   0   0   0   3   1   3  14   5  11  35  58  57  64 132 109 119  89  82  58  38  15   7   5   3   0   0   0
J= 11     0   0   0   0   1   0   1   1  14   3   6  12  30  50 113 160 160  97  99  87  62  37  22   8   6   2   0   0   0
J= 10     0   0   0   0   4   0   1   1   2   3   6  14  14  25  80 139 178 119 105  83  58  36  16   7   4   1   0   0   0
J=  9     0   0   0   0   1   1   1   1   2   3   3   0  11  26  53  91 128 114  95  69  47  22   7   5   3   0   0   0   0
J=  8     0   0   0   0   0   0   1   1   2   7  11  14  14  18  20  40 109  74  58  45  32  12   8   2   1   1   0   0   0
J=  7     0   0   0   0   0   0   3   4   2   3   2   4  12  27  33  43  24  51  21  29  20   6   4   2   1   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   1   1   2   5  12  18  39  42  46  33  24  16   6   1   1   0   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0  16  25  35  39  43  20  22   7   3   1   0   0   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   1  11  25  26  23  16  20   6   3   0   0   0   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   3   1   0   3   1   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

1200 - 1300 PST

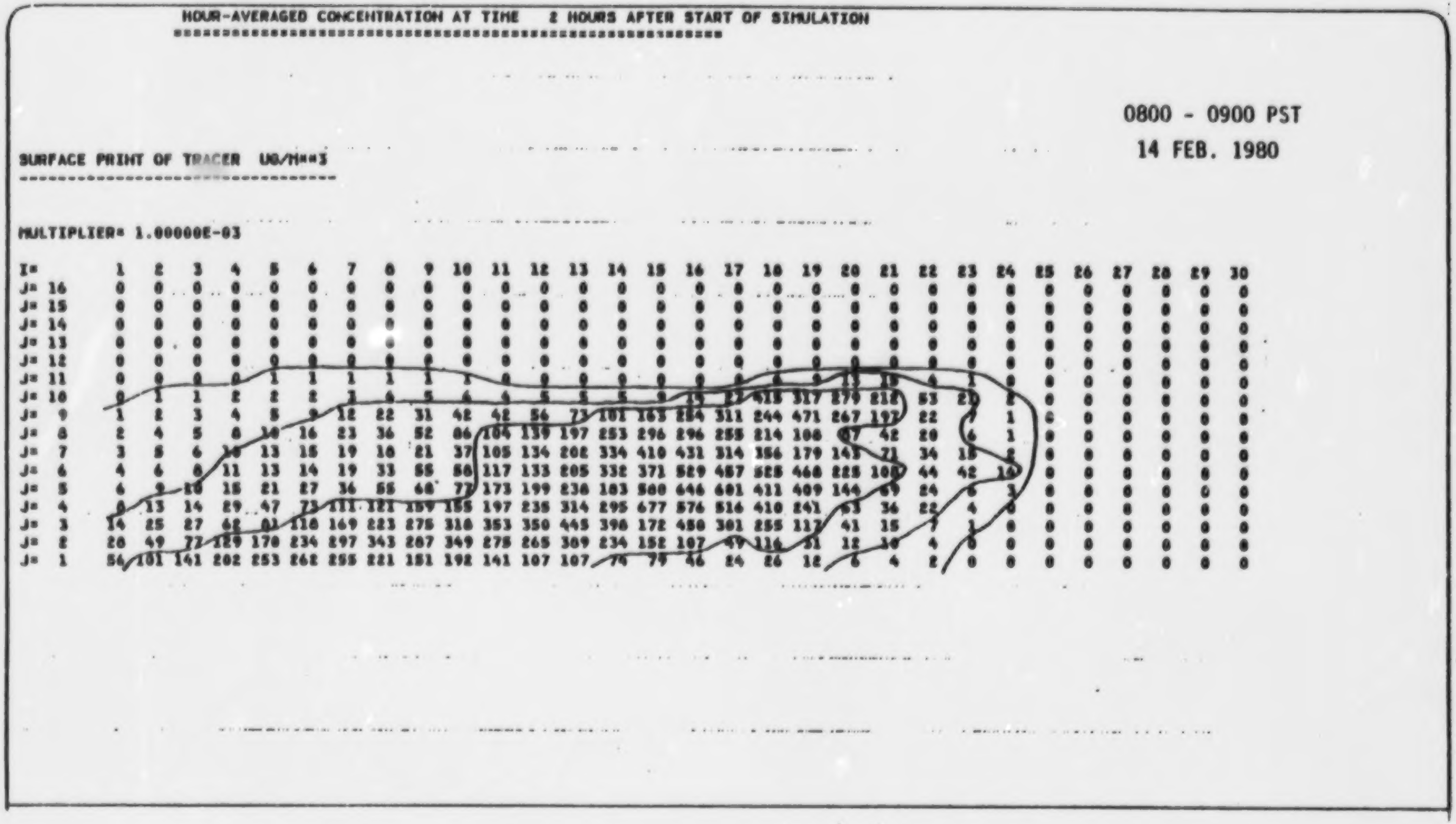
25 SEPT. 1979

FIGURE D1-3a



```
          HOUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
          ===================================================

                                                                                     0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                                                      14 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   0   1   3   2   3   3   3   0   0   0   0   0   0   0   1   7   7  13  10   1   1   0   0   0   0   0   0
J= 10    0   0   1   2   4   8   7   9   8   7   3   2   3   2   6   5   7 252 143 137 192  16   5   1   0   0   0   0   0   0
J=  9    0   1   2   3   4  11  17  22  28  33  27  31  37  46  72  94 111 103 173  61  64  23  10   1   0   0   0   0   0   0
J=  8    0   1   2   6   9   8  14  26  30  45  57  72  90 103 109 105  86  90  47  41  22  27  17   0   0   0   0   0   0   0
J=  7    1   1   3   5   8   9  14  11  13  33  34  75 104 274 319 335 192 266 147  98  49  24   6   1   0   0   0   0   0   0
J=  6    1   2   3   7   9  10   7  11  23  37  70  65 178 223 197 348 317 477 407 356  87  23   4   0   0   0   0   0   0   0
J=  5    1   2   2   3   6   8  12  28  47  55  89  93 167 157 250 419 536 538 724 338  95  41   7   0   0   0   0   0   0   0
J=  4    1   2   1   4  10  12  25  37  46  63  97 101 156 138 220 536 693 589 456  83  43  37   5   0   0   0   0   0   0   0
J=  3    2   4   2  13  20  28  45  54  62  85 130 132 181 148  65 554 294 324 273  39  19  14   1   0   0   0   0   0   0   0
J=  2    5  10   7  15  22  67  90 103  49 107  80  83 177 113  67  52  27 161  45  17  15   7   0   0   0   0   0   0   0   0
J=  1   12  23  32  30  34  62  51  33  16  33  32  21  47  34  32  21  14  29  13   8   7   3   0   0   0   0   0   0   0   0
```

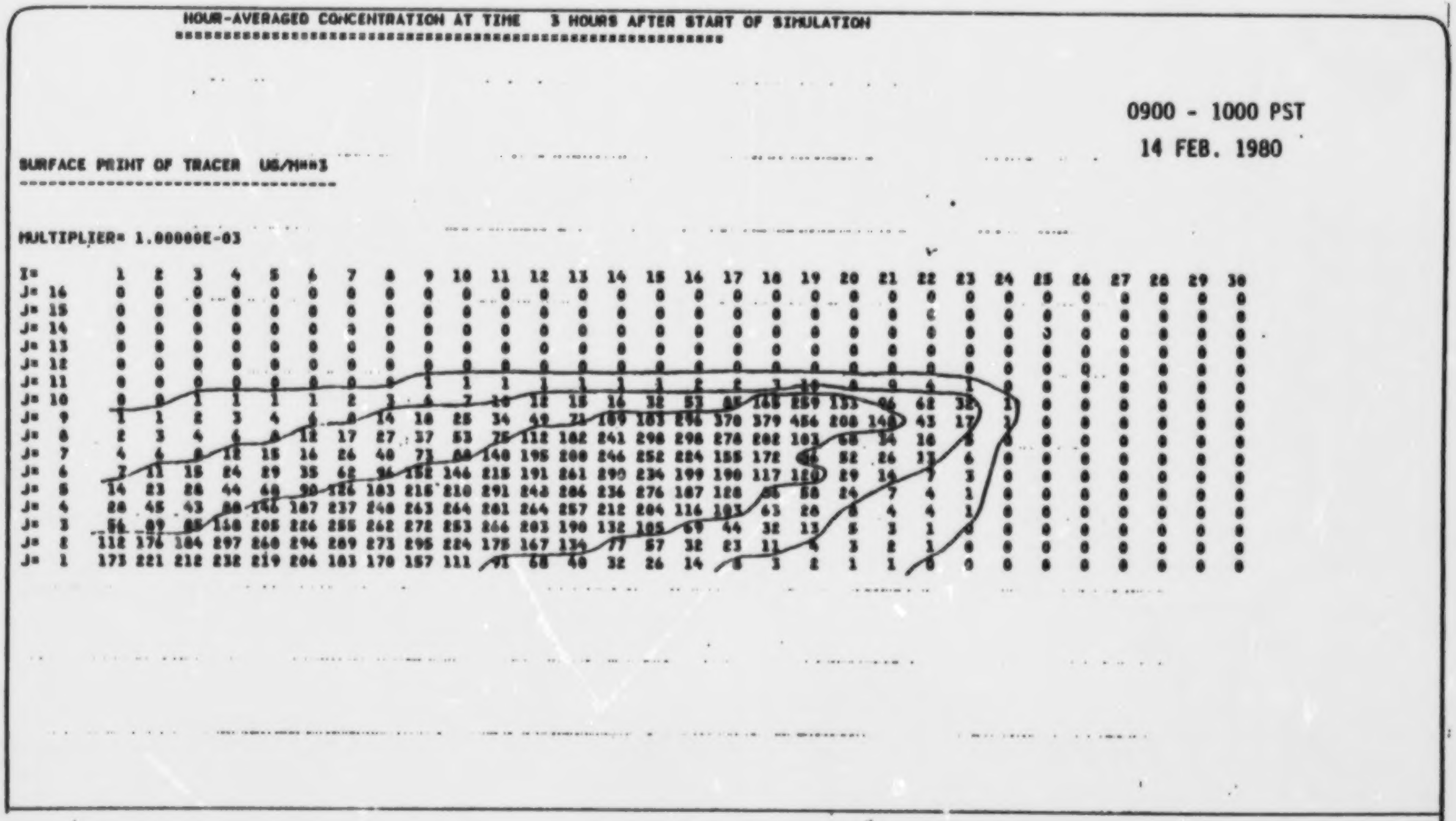
FIGURE D1-3b



```
HOUR-AVERAGED CONCENTRATION AT TIME   2 HOURS AFTER START OF SIMULATION
==========================================================================

SURFACE PRINT OF TRACER  UG/M**3
------------------------------------

MULTIPLIER= 1.00000E-03

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   0   1   1   1   1   1   1   0   0   0   0   0   0   0   0   0  13  13   4   1   0   0   0   0   0   0   0
J= 10    0   1   1   2   2   2   3   4   5   4   4   5   5   5   9  15  17 415 317 279 212  53  21   2   0   0   0   0   0   0
J=  9    1   2   3   4   5   9  12  22  31  42  42  56  73 101 163 284 311 244 471 267 197  22   7   1   0   0   0   0   0   0
J=  8    2   4   5   8  10  16  23  36  52  86 104 139 197 253 296 296 255 214 108  87  42  20   6   1   0   0   0   0   0   0
J=  7    3   5   6  10  13  15  19  18  21  37 105 134 202 334 410 431 314 356 179 143  71  34  18   2   0   0   0   0   0   0
J=  6    4   6   8  11  13  14  19  33  55  86 117 133 205 332 371 529 487 528 468 225 108  44  42  14   0   0   0   0   0   0
J=  5    6   9  10  15  21  27  36  55  68  77 173 199 238 183 500 646 601 411 409 144  69  24   6   3   0   0   0   0   0   0
J=  4    8  13  14  29  47  73 111 121 159 155 197 235 314 295 677 576 516 410 241  53  36  22   4   0   0   0   0   0   0   0
J=  3   14  25  27  62  81 118 169 223 275 318 353 350 445 398 172 480 301 255 117  41  15   7   1   0   0   0   0   0   0   0
J=  2   28  49  72 129 178 234 297 343 287 349 278 265 309 234 152 107  49 116  31  12  10   4   0   0   0   0   0   0   0   0
J=  1   56 101 141 202 253 262 255 221 151 192 141 107 107  74  79  46  24  26  12   6   4   2   0   0   0   0   0   0   0   0
```

0800 - 0900 PST
14 FEB. 1980

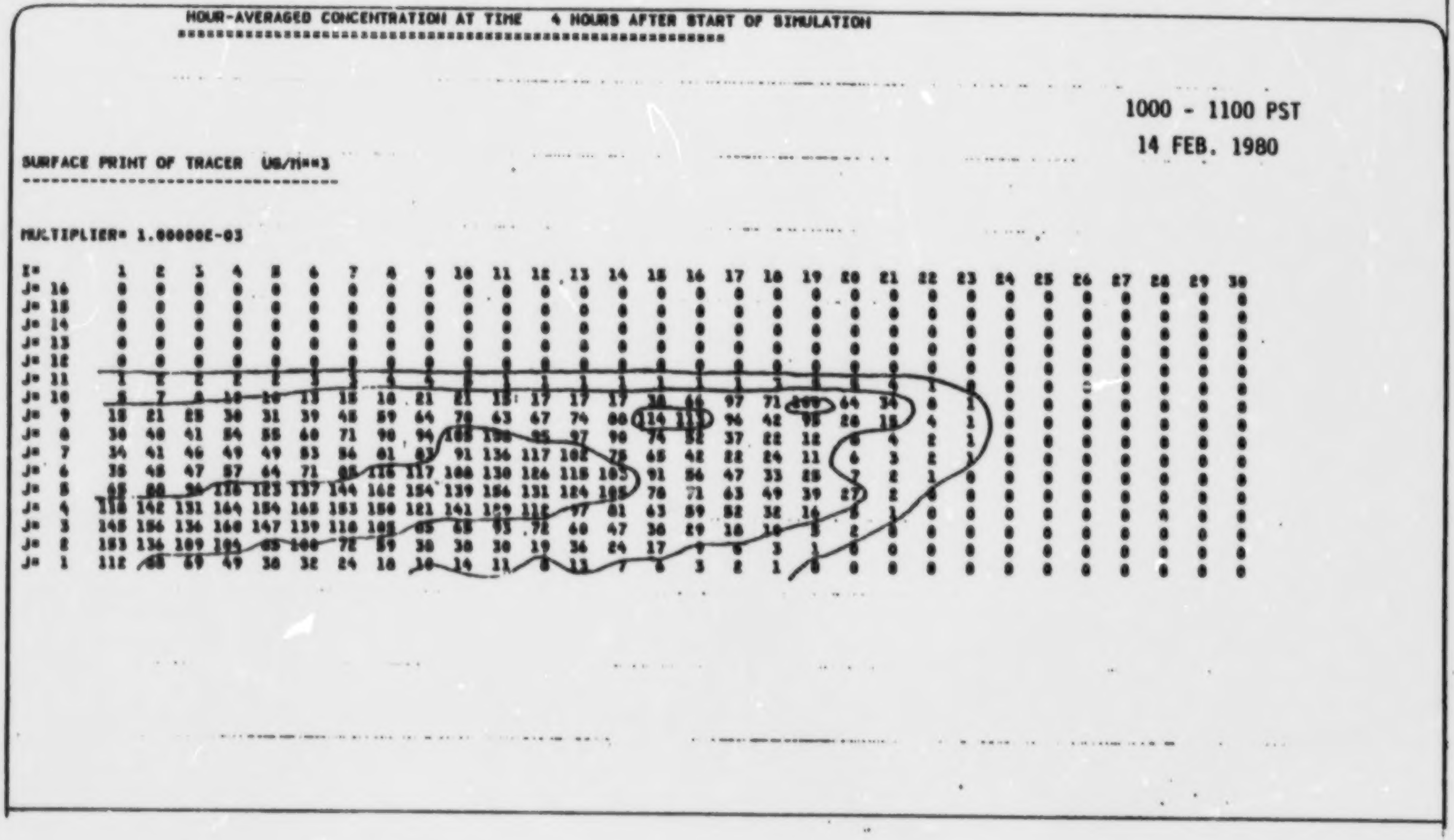
FIGURE D1-3c



```
HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
==================================================================

SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-03

I=        1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
J= 16     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 15     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 14     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 13     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 12     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 11     0    0    0    0    0    0    0    0    1    1    1    1    1    1    1    2    2    3   10    4    9    4    1    0    0    0    0    0    0    0
J= 10     0    0    1    1    1    1    2    3    6    7   10   12   15   16   32   53   85  165  259  133   96   62   32    1    0    0    0    0    0    0
J=  9     1    1    2    3    4    6    8   14   18   25   34   49   71  109  183  296  370  379  456  208  140   43   17    1    0    0    0    0    0    0
J=  8     2    3    4    6    8   12   17   27   37   53   75  112  182  241  298  298  278  202  103   68   34   16    8    0    0    0    0    0    0    0
J=  7     4    6    8   12   15   16   26   40   73   88  140  195  208  246  252  224  155  172   96   52   26   11    6    0    0    0    0    0    0    0
J=  6     7   11   15   24   29   35   62   96  152  146  215  191  261  290  236  199  190  117  120   29   14    7    3    0    0    0    0    0    0    0
J=  5    14   23   28   44   48   90  126  183  215  210  291  248  206  236  276  187  128   85   58   24    7    4    1    0    0    0    0    0    0    0
J=  4    28   45   43   80  146  187  237  248  263  264  281  264  257  212  204  116  103   63   28    8    4    4    1    0    0    0    0    0    0    0
J=  3    56   89   85  158  205  226  255  262  272  253  266  203  190  132  105   69   44   32   13    5    3    1    0    0    0    0    0    0    0    0
J=  2   112  176  184  297  260  296  289  273  295  224  175  167  134   77   57   32   23   11    4    3    2    1    0    0    0    0    0    0    0    0
J=  1   173  221  212  232  219  206  183  170  157  111   91   68   40   32   26   14    8    3    2    1    1    0    0    0    0    0    0    0    0    0
```

0900 - 1000 PST
14 FEB. 1980

FIGURE D1-3d

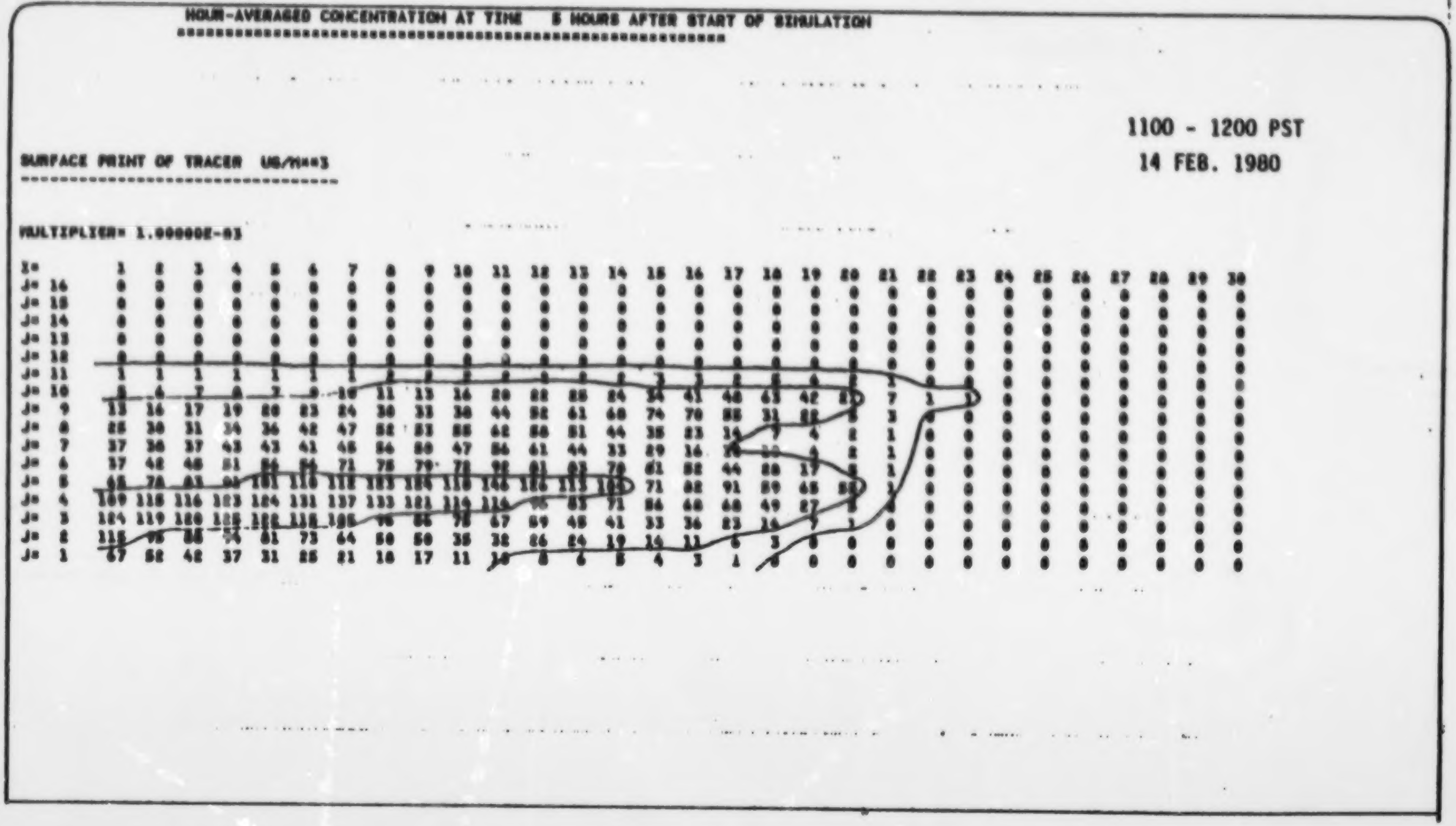


1000 - 1100 PST

14 FEB. 1980

```
HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
************************************************************

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
J= 16     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 15     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 14     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 13     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 12     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 11     1    2    2    2    2    3    3    4    4    3    1    1    1    1    1    1    1    2    1    1    4    1    0    0    0    0    0    0    0    0
J= 10     5    7    8   10   10   13   15   18   21   21   15   17   17   17   38   66   97   71  109   64   34    0    1    0    0    0    0    0    0    0
J=  9    15   21   25   30   31   39   45   59   64   78   63   67   74   80  114  113   96   42   95   28   15    4    1    0    0    0    0    0    0    0
J=  8    30   40   41   54   55   60   71   90   94  105  130   95   97   90   74   52   37   22   12    8    4    2    1    0    0    0    0    0    0    0
J=  7    34   41   46   49   49   53   56   61   83   91  136  117  102   78   65   42   22   24   11    6    3    2    1    0    0    0    0    0    0    0
J=  6    35   45   47   57   64   71   85  116  117  108  130  126  115  105   91   56   47   33   25    7    2    1    0    0    0    0    0    0    0    0
J=  5    65   80   96  116  123  137  144  162  154  139  156  131  124  105   78   71   63   49   39   27    2    0    0    0    0    0    0    0    0    0
J=  4   118  142  131  164  154  165  153  150  121  141  129  112   97   81   63   59   52   32   16    5    1    0    0    0    0    0    0    0    0    0
J=  3   145  156  136  160  147  139  118  105   65   65   93   72   60   47   30   29   18   10    5    2    0    0    0    0    0    0    0    0    0    0
J=  2   153  136  109  105   65  100   72   59   30   30   30   19   36   24   17    9    8    3    1    0    0    0    0    0    0    0    0    0    0    0
J=  1   112   88   69   49   30   32   24   18   10   14   11    8   11    7    8    3    2    1    0    0    0    0    0    0    0    0    0    0    0    0
```

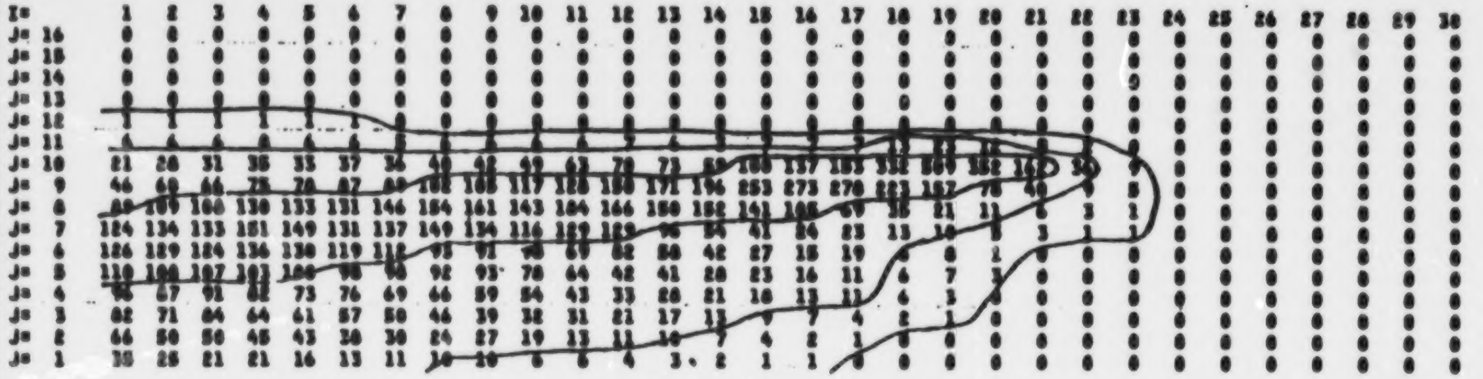
FIGURE D1-3e



```
HOUR-AVERAGED CONCENTRATION AT TIME   5 HOURS AFTER START OF SIMULATION
=================================================================

                                                                                    1100 - 1200 PST
SURFACE PRINT OF TRACER  UG/M**3                                                    14 FEB. 1980
---------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11     1   1   1   1   1   1   1   2   2   2   2   2   2   2   3   3   2   2   4   2   1   0   0   0   0   0   0   0   0   0
J= 10     5   6   7   8   7   9  10  11  13  16  20  22  25  24  34  41  48  63  42  21   7   1   1   0   0   0   0   0   0   0
J=  9    13  16  17  19  20  23  24  30  33  38  44  52  61  68  74  70  85  31  22   5   3   0   0   0   0   0   0   0   0   0
J=  8    25  30  31  34  36  42  47  52  53  55  62  68  51  44  35  23  14   7   4   2   1   0   0   0   0   0   0   0   0   0
J=  7    37  38  37  43  43  41  48  56  60  47  56  61  44  33  29  16  16  10   4   2   1   0   0   0   0   0   0   0   0   0
J=  6    57  42  48  51  56  56  71  75  79  72  92  81  83  78  61  52  44  28  17   5   1   0   0   0   0   0   0   0   0   0
J=  5    65  78  83  92 101 110 112 103 124 118 146 126 113 105  71  82  91  59  65  53   1   0   0   0   0   0   0   0   0   0
J=  4   109 118 116 123 124 131 137 133 121 119 116  95  83  71  86  68  68  49  27   5   4   0   0   0   0   0   0   0   0   0
J=  3   124 119 120 125 122 118 105  78  85  78  67  59  48  41  33  36  23  14   7   1   0   0   0   0   0   0   0   0   0   0
J=  2   115  95  88  74  61  73  64  50  50  35  32  26  24  19  14  11   6   3   1   0   0   0   0   0   0   0   0   0   0   0
J=  1    67  52  42  37  31  25  21  18  17  11  10   8   6   5   4   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0
```

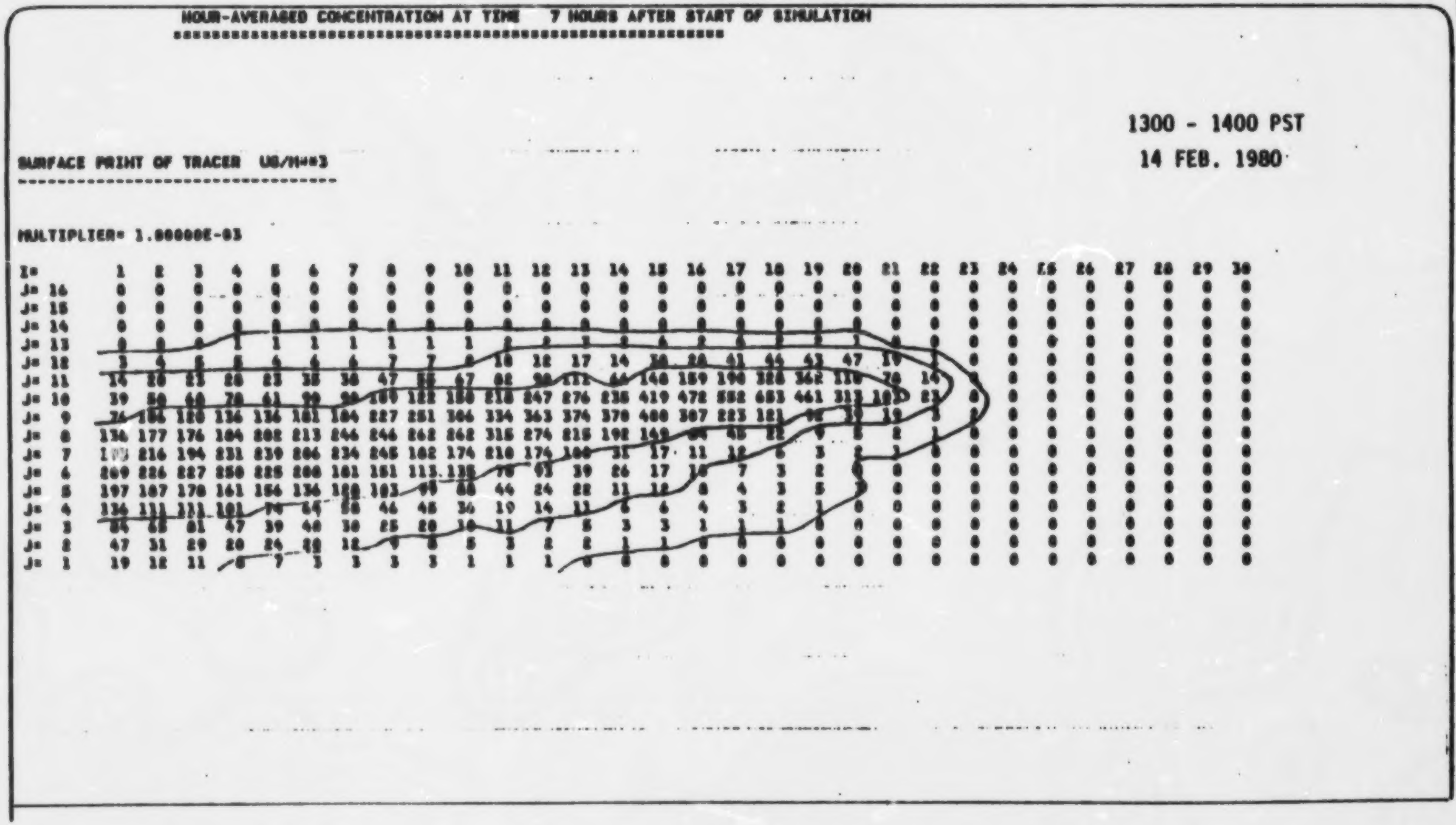
FIGURE D1-3f

```
HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
=====================================================================

                                                                          1200 - 1300 PST
SURFACE PRINT OF TRACER  UG/M**3                                           14 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03
```



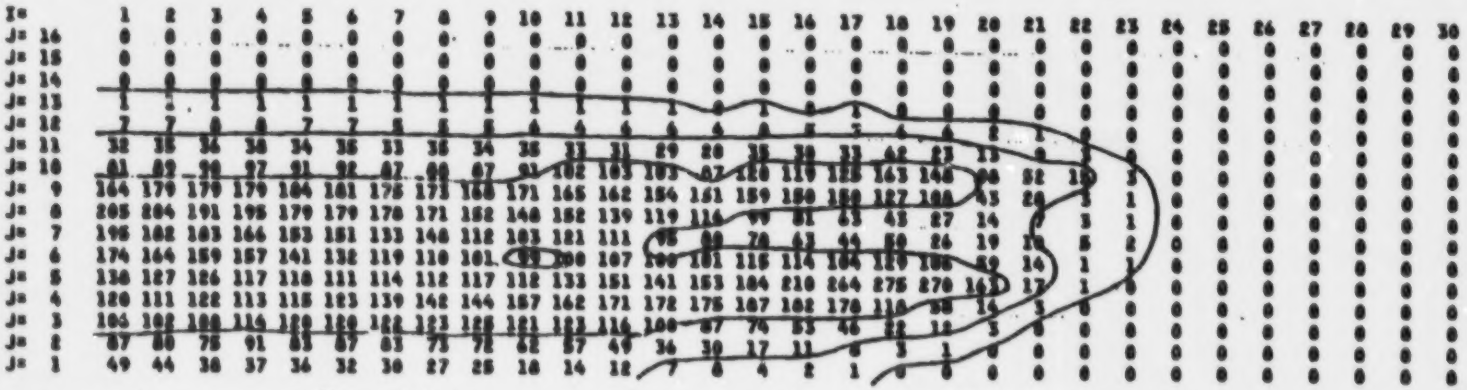
```
I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     1   1   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11     6   6   6   6   6   6   5 [illegible] [illegible] [illegible] [illegible] 7   6   5   5   5   5  12  12  11   6   3   0   0   0   0   0   0   0   0
J= 10    21  28  31  35  33  37  34  40  42  49  63  70  73  89 100 137 183 332 509 182 162  34   9   0   0   0   0   0   0   0
J=  9    46  60  66  75  70  87  89 102 108 117 128 150 171 196 253 273 270 223 157  78  40   9   5   0   0   0   0   0   0   0
J=  8    89 109 108 130 133 131 146 154 161 143 184 166 150 152 141 106  69  35  21  11   6   3   1   0   0   0   0   0   0   0
J=  7   124 134 133 151 149 131 137 149 134 116 129 123  96  84  41  24  23  13  10   5   3   1   1   0   0   0   0   0   0   0
J=  6   126 129 124 136 130 119 112  95  91  90  69  62  50  42  27  18  19   8   8   1   0   0   0   0   0   0   0   0   0   0
J=  5   110 100 107 103 100  98  90  92  93  78  64  42  41  28  23  16  11   6   7   3   0   0   0   0   0   0   0   0   0   0
J=  4    96  87  91  82  73  76  69  66  59  54  43  33  28  21  18  13  11   6   3   0   0   0   0   0   0   0   0   0   0   0
J=  3    82  71  84  64  61  57  50  46  39  32  31  21  17  13   9   7   4   2   1   0   0   0   0   0   0   0   0   0   0   0
J=  2    66  50  50  45  43  38  30  24  27  19  13  11  10   7   4   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    35  28  21  21  16  13  11  10  10   6   6   4   3.  2   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-3g



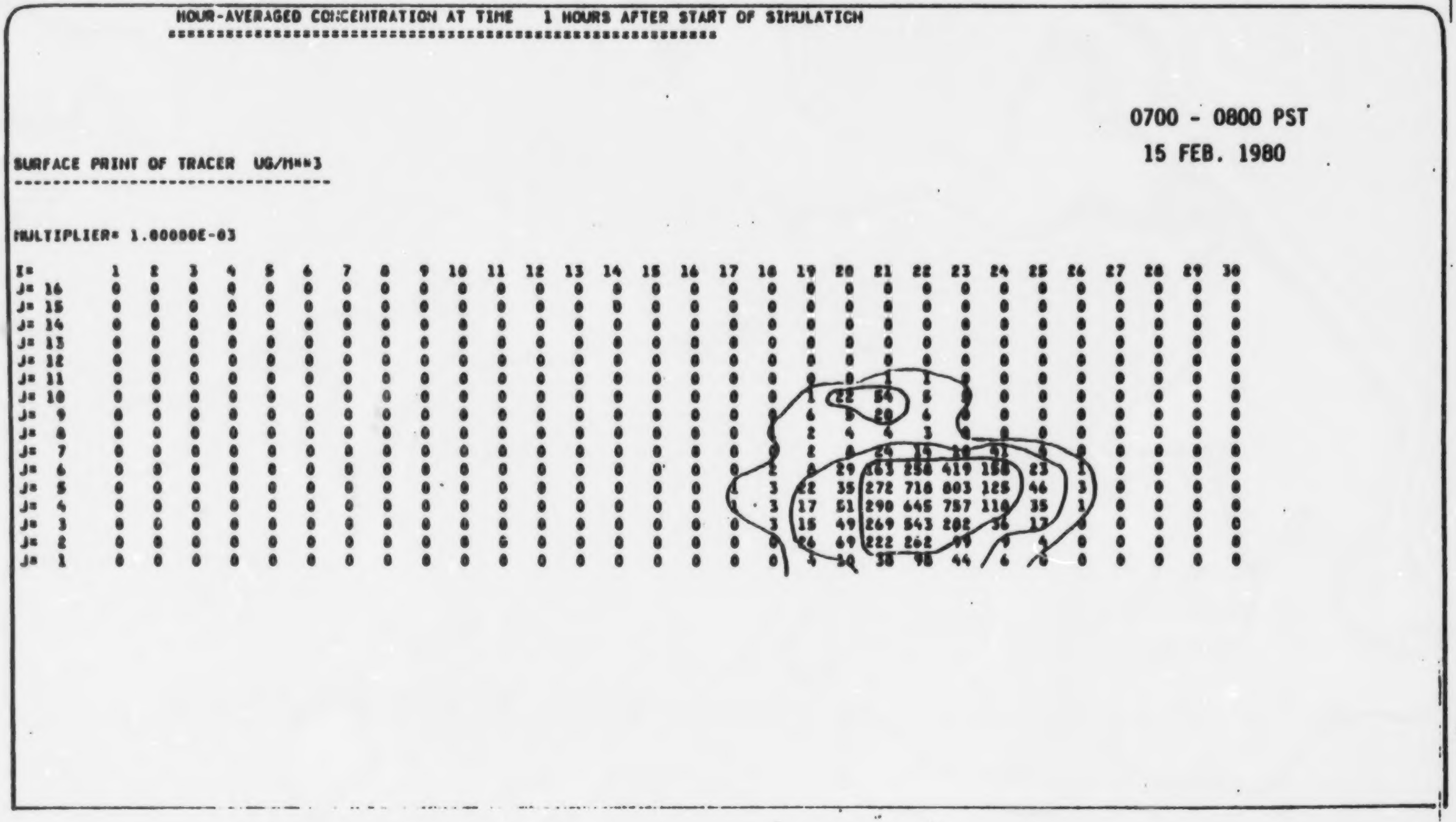
```
              HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
              ************************************************************************

                                                                                    1300 - 1400 PST
SURFACE PRINT OF TRACER  UG/M**3                                                     14 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   1   1   1   1   1   1   1   2   2   3   2   4   2   3   2   2   1   0   0   0   0   0   0   0   0   0   0
J= 12     3   4   5   5   4   4   6   7   7   8  10  12  17  14  16  20  41  44  43  47  19   1   0   0   0   0   0   0   0   0
J= 11    14  20  23  26  23  35  38  47  55  67  82  98 111  44 148 159 190 328 362 110  70  14   1   0   0   0   0   0   0   0
J= 10    39  50  60  70  61  99  99 109 122 180 218 247 276 235 419 472 552 653 461 313 103  23   0   0   0   0   0   0   0   0
J=  9    76 106 120 136 136 181 184 227 251 306 334 363 374 370 400 307 223 121  98  39  19   3   1   0   0   0   0   0   0   0
J=  8   136 177 176 184 202 213 244 244 262 262 315 274 215 192 149  84  45  22   9   8   2   1   0   0   0   0   0   0   0   0
J=  7   193 216 194 231 239 206 234 245 182 174 210 174 100  31  17  11  12   6   3   2   1   0   0   0   0   0   0   0   0   0
J=  6   269 226 227 250 225 200 181 151 113 135  78  93  39  26  17  16   7   3   2   0   0   0   0   0   0   0   0   0   0   0
J=  5   197 187 170 161 164 136 120 103  98  88  44  24  22  11  12   8   4   3   5   3   0   0   0   0   0   0   0   0   0   0
J=  4   136 111 111 101  74  64  58  46  48  36  19  14  11   6   6   4   3   2   1   0   0   0   0   0   0   0   0   0   0   0
J=  3    84  68  81  47  39  40  30  25  20  10  11   7   5   3   3   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    47  31  29  20  24  18  12   9   8   5   3   2   2   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    19  12  11   8   7   3   3   3   3   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-3h



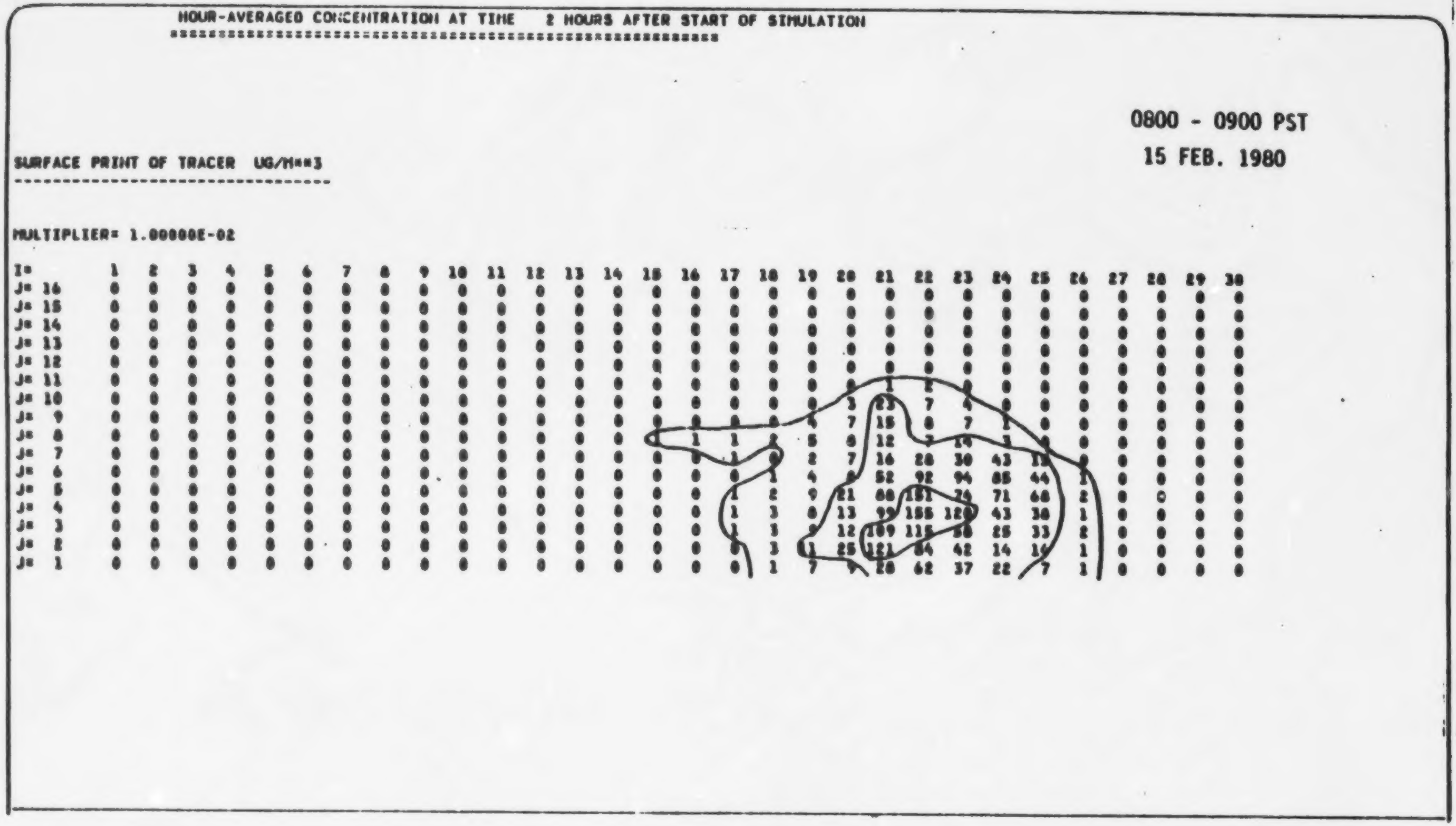
```
          HOUR-AVERAGED CONCENTRATION AT TIME    8 HOURS AFTER START OF SIMULATION
          ===========================================================

                                                                                         1400 - 1500 PST
SURFACE PRINT OF TRACER  UG/M**3                                                         14 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     1   1   1   1   1   1   1   1   1   1   1   1   1   0   1   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     7   7   8   8   7   7   5   5   5   4   4   4   4   4   5   5   3   4   4   2   1   0   0   0   0   0   0   0   0   0
J= 11    32  35  36  38  34  35  33  36  34  35  33  31  29  28  35  38  33  42  23  13   9   1   0   0   0   0   0   0   0   0
J= 10    81  89  90  97  91  92  87  88  87  91 102 103 103  87 120 119 125 163 146  90  52  10   3   0   0   0   0   0   0   0
J=  9   164 179 179 179 184 181 175 173 168 171 165 162 154 161 159 150 150 127 108  43  28   3   1   0   0   0   0   0   0   0
J=  8   205 204 191 195 179 179 178 171 152 148 152 139 119 116  99  81  63  43  27  14   7   3   1   0   0   0   0   0   0   0
J=  7   195 182 183 166 153 151 133 148 112 103 121 111  95  88  78  63  44  50  26  19  18   5   2   0   0   0   0   0   0   0
J=  6   174 164 159 157 141 132 119 110 101  95 100 107 100 101 115 114 104 129 106  59  14   1   1   0   0   0   0   0   0   0
J=  5   138 127 126 117 118 111 114 112 117 112 133 151 141 153 184 210 264 275 270 163  17   1   0   0   0   0   0   0   0   0
J=  4   120 111 122 113 115 123 139 142 144 157 162 171 172 175 187 182 178 118  58  16   3   0   0   0   0   0   0   0   0   0
J=  3   106 102 108 114 120 120 122 123 125 121 123 116 100  87  74  53  46  22  12   3   0   0   0   0   0   0   0   0   0   0
J=  2    87  80  75  91  83  87  83  73  72  62  57  49  36  30  17  11   6   3   1   0   0   0   0   0   0   0   0   0   0   0
J=  1    49  44  38  37  36  32  30  27  25  18  14  12   7   6   4   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-4a



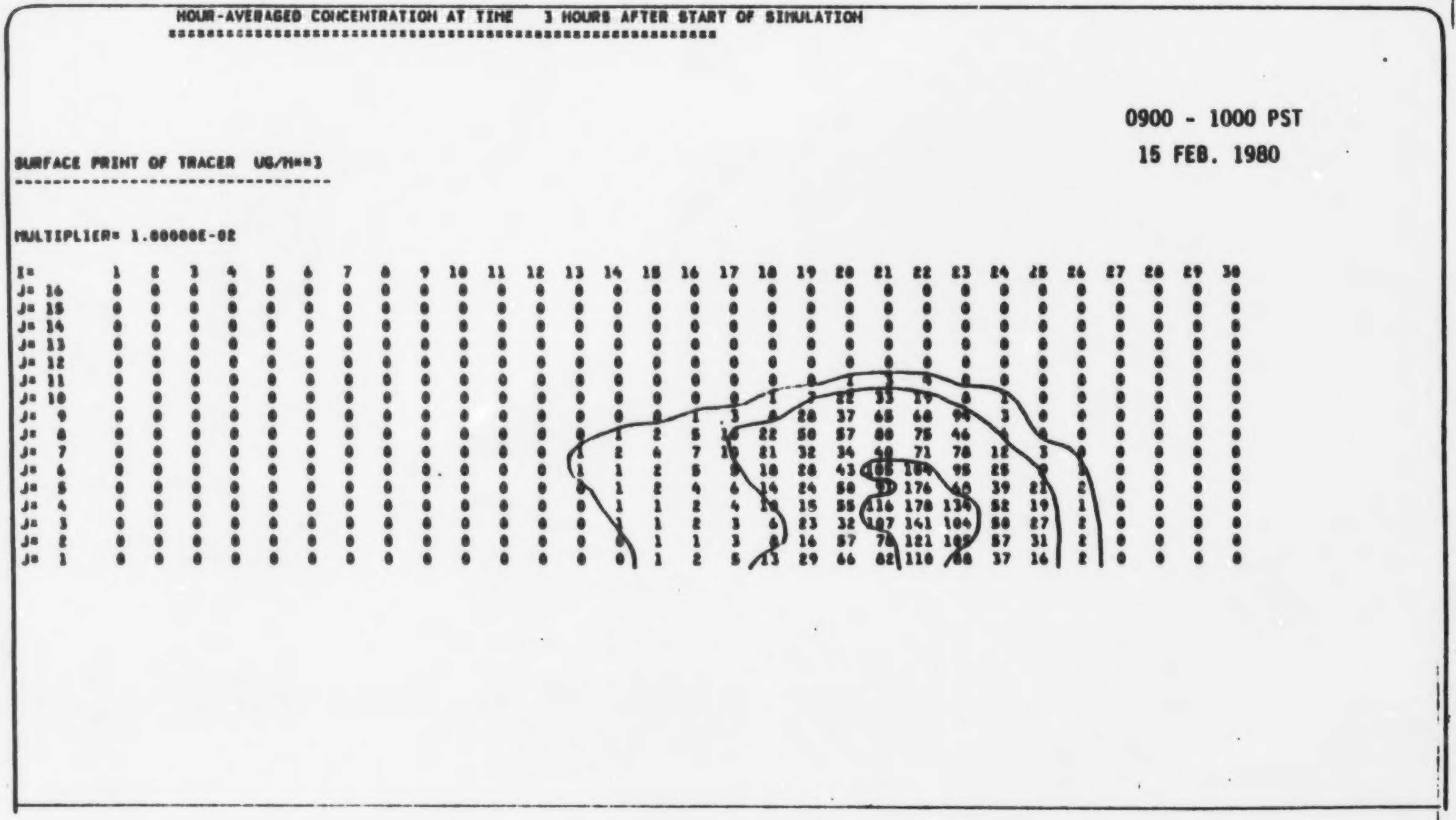
```
            HOUR-AVERAGED CONCENTRATION AT TIME   1 HOURS AFTER START OF SIMULATICN
          ========================================================


                                                                                         0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                                                          15 FEB. 1980
--------------------------------


MULTIPLIER= 1.00000E-03

I=        1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
J= 16     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 15     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 14     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 13     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 12     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 11     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1    1    0    0    0    0    0    0    0    0
J= 10     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1   22   54    5    0    0    0    0    0    0    0    0
J=  9     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    6    5   20    6    0    0    0    0    0    0    0    0
J=  8     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    2    4    4    3    0    0    0    0    0    0    0    0
J=  7     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    2    0   24   15   11   41    6    0    0    0    0    0
J=  6     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    2    0   29  163  258  419  158   23    1    0    0    0    0
J=  5     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1    3   22   35  272  718  803  125   46    3    0    0    0    0
J=  4     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1    3   17   51  290  645  757  110   35    1    0    0    0    0
J=  3     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    3   15   49  269  543  202   36   17    0    0    0    0    0
J=  2     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0   26   69  222  262   99    9    4    0    0    0    0    0
J=  1     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    4   10   38   98   44    6    0    0    0    0    0    0
```

FIGURE D1-4b



```
          HOUR-AVERAGED CONCENTRATION AT TIME    2 HOURS AFTER START OF SIMULATION
          ==============================================================

                                                                          0800 - 0900 PST
SURFACE PRINT OF TRACER  UG/M**3                                          15 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   0   0   0   0   0   0   0   0
J= 10     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  23   7   4   0   0   0   0   0   0   0
J=  9     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   4   7  15   8   7   1   0   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   5   6  12   7  14   3   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   2   7  16  28  30  43  11   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   8  52  92  94  85  44   1   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   9  21  88 151  74  71  68   2   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8  13  99 155 120  43  30   1   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   9  12 109 115  50  25  33   2   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  11  25 121  84  42  14  16   1   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   7   9  28  62  37  22   7   1   0   0   0   0
```

FIGURE D1-4c



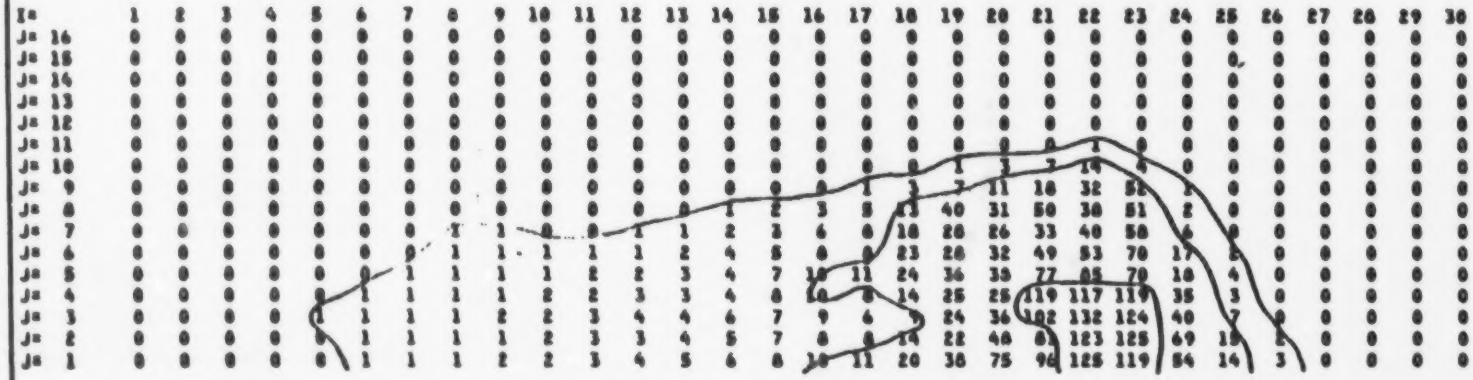
0900 - 1000 PST
15 FEB. 1980

```
           HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
           =========================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   4   0   0   0   0   0   0   0   0
J= 10     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3  22  33  19   8   2   0   0   0   0   0   0
J=  9     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8  20  37  65  60  94   3   0   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  16  22  50  57  80  75  46   4   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   0   1   2   6   7  10  21  32  34  40  71  78  12   3   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   5   9  18  28  43 105 104  95  25   7   1   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   6  14  24  50  99 176  60  39  21   2   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   4  10  15  55 116 178 134  52  19   1   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   3   6  23  32 107 141 104  50  27   2   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   3   8  16  57  78 121 109  57  31   2   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  13  29  66  82 110  88  37  16   2   0   0   0   0
```

FIGURE D1-4d

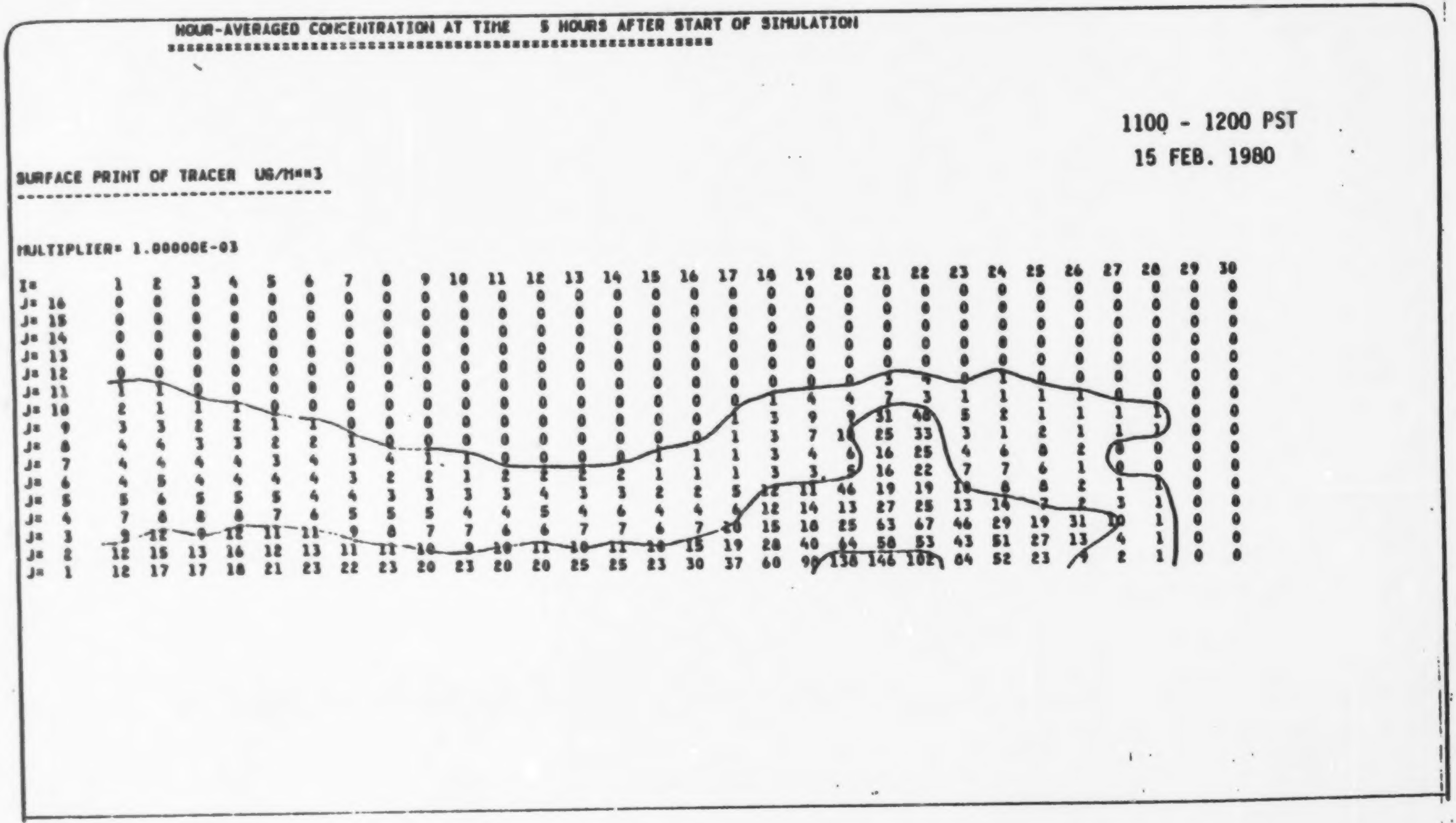
```
HOUR-AVERAGED CONCENTRATION AT TIME   4 HOURS AFTER START OF SIMULATION
==================================================================
```

1000 - 1100 PST
15 FEB. 1980



```
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.0000AE-02

I=          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0
J= 10       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   7  14   4   0   0   0   0   0   0   0
J=  9       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   7  11  18  32  51   1   0   0   0   0   0   0
J=  8       0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   5  13  40  31  50  38  51   2   0   0   0   0   0   0
J=  7       0   0   0   0   0   0   0   1   1   0   0   1   1   2   3   6   8  18  28  26  33  40  58   6   0   0   0   0   0   0
J=  6       0   0   0   0   0   0   0   1   1   1   1   1   2   4   5   8   8  23  28  32  49  53  70  17   2   0   0   0   0   0
J=  5       0   0   0   0   0   0   1   1   1   1   2   2   3   4   7  10  11  24  36  33  77  85  70  18   4   0   0   0   0   0
J=  4       0   0   0   0   0   1   1   1   1   2   2   3   3   4   8  10   8  14  25  25 119 117 119  35   3   0   0   0   0   0
J=  3       0   0   0   0   1   1   1   1   2   2   3   4   4   6   7   9   6   9  24  36 102 132 124  40   7   0   0   0   0   0
J=  2       0   0   0   0   0   1   1   1   1   2   3   3   4   5   7   8   8  14  22  48  81 123 125  69  15   2   0   0   0   0
J=  1       0   0   0   0   0   1   1   1   2   2   3   4   5   6   8  10  11  20  38  75  98 125 119  54  14   3   0   0   0   0
```

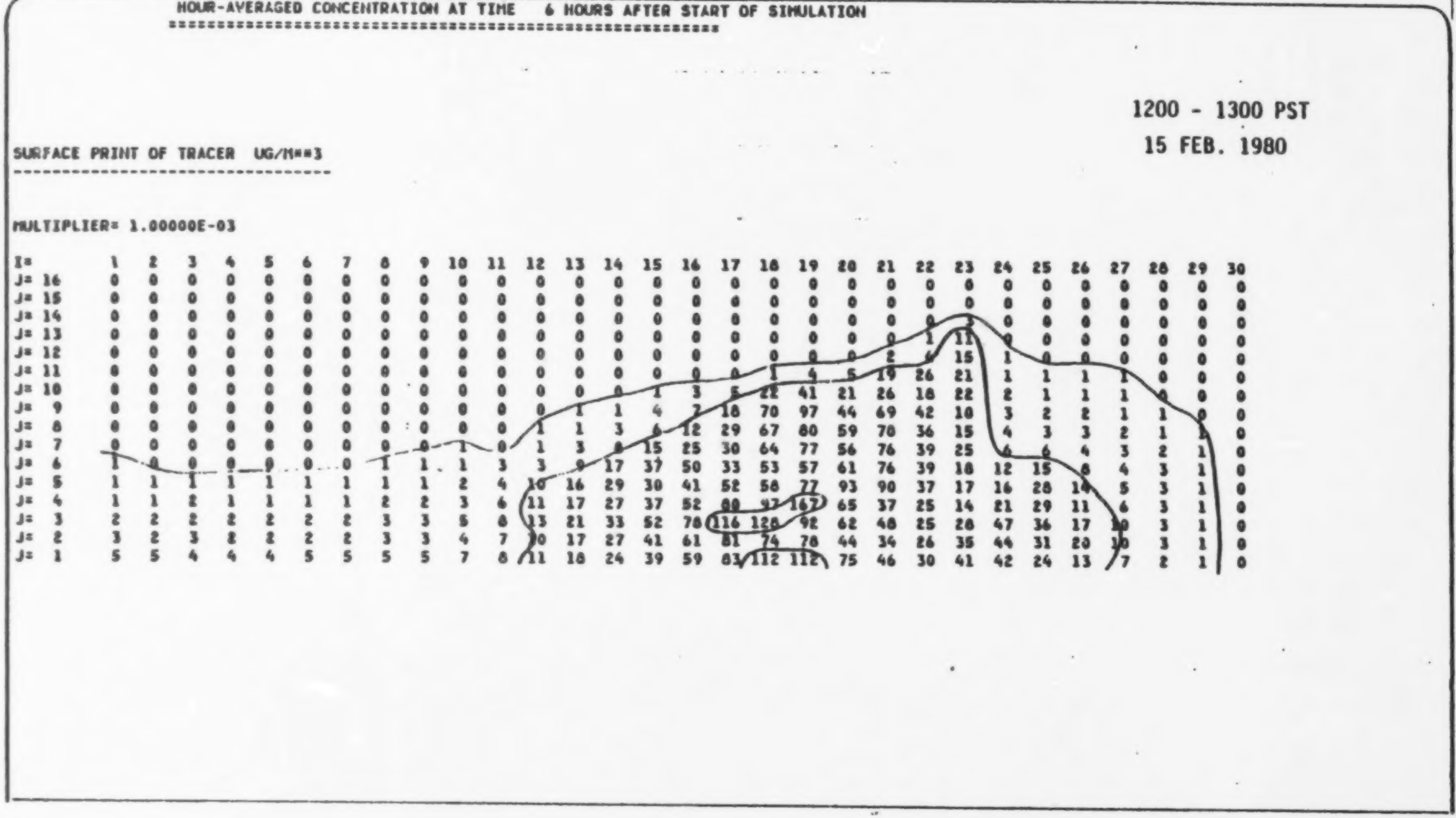
FIGURE D1-4e



```
          HOUR-AVERAGED CONCENTRATION AT TIME   5 HOURS AFTER START OF SIMULATION
          ==============================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11     1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   4   0   1   0   0   0   0   0   0
J= 10     2   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   4   7   3   1   1   1   1   0   0   0   0
J=  9     3   3   2   2   1   1   0   0   0   0   0   0   0   0   0   0   1   3   9   9  31  40   5   2   1   1   1   1   0   0
J=  8     4   4   3   3   2   2   1   0   0   0   0   0   0   0   0   0   1   3   7 [illegible]  25  33   3   1   2   1   1   1   0   0
J=  7     4   4   4   4   3   4   3   4   1   1   0   0   0   0   1   1   1   3   4   6  16  25   4   6   8   2   0   0   0   0
J=  6     4   5   4   4   4   4   3   2   2   1   2   2   2   2   1   1   1   3   3   5  16  22   7   7   6   1   0   0   0   0
J=  5     5   6   5   5   5   4   4   3   3   3   3   4   3   3   2   2   5  12  11  46  19  19  10   8   8   2   1   1   0   0
J=  4     7   8   8   8   7   6   5   5   5   4   4   5   4   6   4   4   6  12  14  13  27  25  13  14   7   2   3   1   0   0
J=  3     9  12   9  12  11  11   9   8   7   7   6   6   7   7   6   7  20  15  18  25  63  67  46  29  19  31  10   1   0   0
J=  2    12  15  13  16  12  13  11  11  10   9  10  11  10  11  10  15  19  28  40  64  58  53  43  51  27  13   4   1   0   0
J=  1    12  17  17  18  21  23  22  23  20  23  20  20  25  25  23  30  37  60  90 138 146 102  64  52  23   9   2   1   0   0
```

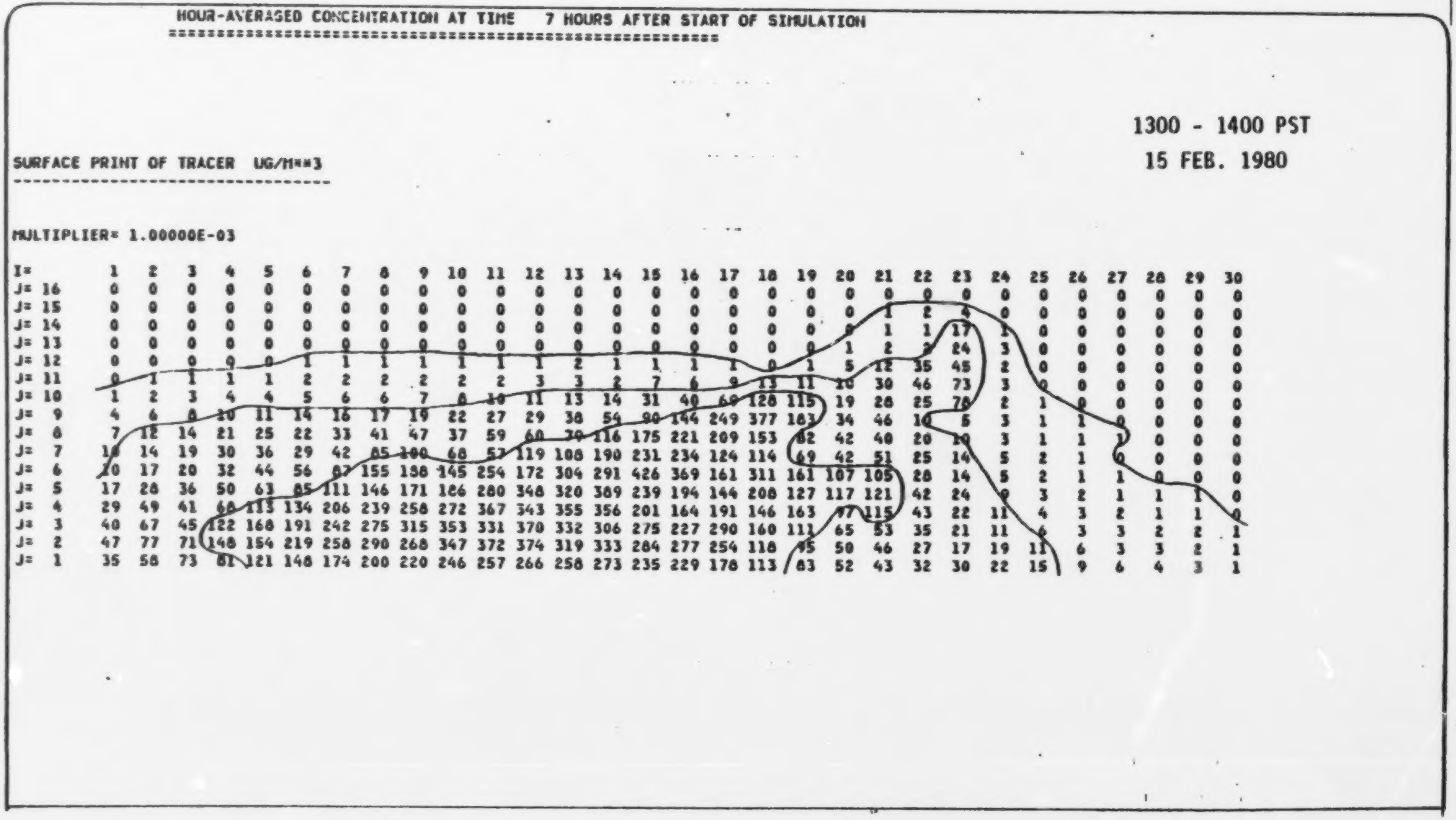
1100 - 1200 PST
15 FEB. 1980

FIGURE D1-4f



```
            HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
            ==========================================================

                                                                                         1200 - 1300 PST
SURFACE PRINT OF TRACER  UG/M**3                                                          15 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  11   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   6  15   1   0   0   0   0   0   0
J= 11    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   5  19  26  21   1   1   1   1   0   0   0
J= 10    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   5  22  41  21  26  18  22   2   1   1   1   0   0   0
J=  9    0   0   0   0   0   0   0   0   0   0   0   0   1   1   4   7  18  70  97  44  69  42  10   3   2   2   1   1   0   0
J=  8    0   0   0   0   0   0   0   0   0   0   0   1   1   3   6  12  29  67  80  59  70  36  15   4   3   3   2   1   1   0
J=  7    0   0   0   0   0   0   0   0   0   1   0   1   3   8  15  25  30  64  77  56  76  39  25   6   6   4   3   2   1   0
J=  6    1   0   0   0   0   0   0   1   1   1   3   3   9  17  37  50  33  53  57  61  76  39  18  12  15   8   4   3   1   0
J=  5    1   1   1   1   1   1   1   1   1   2   4  10  16  29  30  41  52  58  77  93  90  37  17  16  28  14   5   3   1   0
J=  4    1   1   2   1   1   1   1   2   2   3   6  11  17  27  37  52  88  97 167  65  37  25  14  21  29  11   6   3   1   0
J=  3    2   2   2   2   2   2   2   3   3   5   8  13  21  33  52  78 116 128  92  62  48  25  28  47  36  17  10   3   1   0
J=  2    3   2   3   2   2   2   2   3   3   4   7  10  17  27  41  61  81  74  78  44  34  26  35  44  31  20  10   3   1   0
J=  1    5   5   4   4   4   5   5   5   5   7   8  11  18  24  39  59  83 112 112  75  46  30  41  42  24  13   7   2   1   0
```

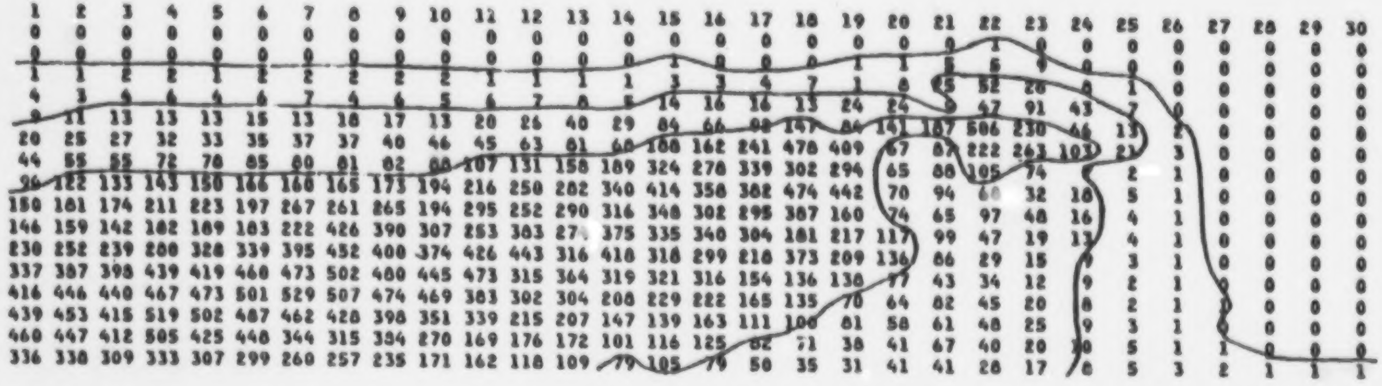
FIGURE D1-4g



```
          HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
          ==========================================================

                                                                    1300 - 1400 PST
SURFACE PRINT OF TRACER  UG/M**3                                     15 FEB. 1980
----------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1  17   1   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   2  24   3   0   0   0   0   0   0
J= 12     0   0   0   0   0   1   1   1   1   1   1   1   2   1   1   1   1   0   1   5  12  35  45   2   0   0   0   0   0   0
J= 11     0   1   1   1   1   2   2   2   2   2   2   3   3   2   7   6   9  13  11  10  30  46  73   3   0   0   0   0   0   0
J= 10     1   2   3   4   4   5   6   6   7   8  10  11  13  14  31  40  69 128 115  19  28  25  70   2   1   0   0   0   0   0
J=  9     4   6   8  10  11  14  16  17  19  22  27  29  38  54  90 144 249 377 183  34  46  10   6   3   1   1   0   0   0   0
J=  8     7  12  14  21  25  22  33  41  47  37  59  60  70 116 175 221 209 153  82  42  40  20  10   3   1   1   1   0   0   0
J=  7    10  14  19  30  36  29  42  85 100  68  57 119 108 190 231 234 124 114  69  42  51  25  14   5   2   1   0   0   0   0
J=  6    10  17  20  32  44  56  87 155 158 145 254 172 304 291 426 369 161 311 161 107 105  28  14   5   2   1   1   0   0   0
J=  5    17  28  36  50  63  85 111 146 171 186 280 348 320 389 239 194 144 208 127 117 121  42  24   9   3   2   1   1   1   0
J=  4    29  49  41  68 113 134 206 239 258 272 367 343 355 356 201 164 191 146 163  97 115  43  22  11   4   3   2   1   1   0
J=  3    40  67  45 122 168 191 242 275 315 353 331 370 332 306 275 227 290 160 111  65  53  35  21  11   6   3   3   2   2   1
J=  2    47  77  71 148 154 219 258 290 268 347 372 374 319 333 284 277 254 118  95  50  46  27  17  19  11   6   3   3   2   1
J=  1    35  58  73  81 121 148 174 200 220 246 257 266 258 273 235 229 178 113  83  52  43  32  30  22  15   9   6   4   3   1
```

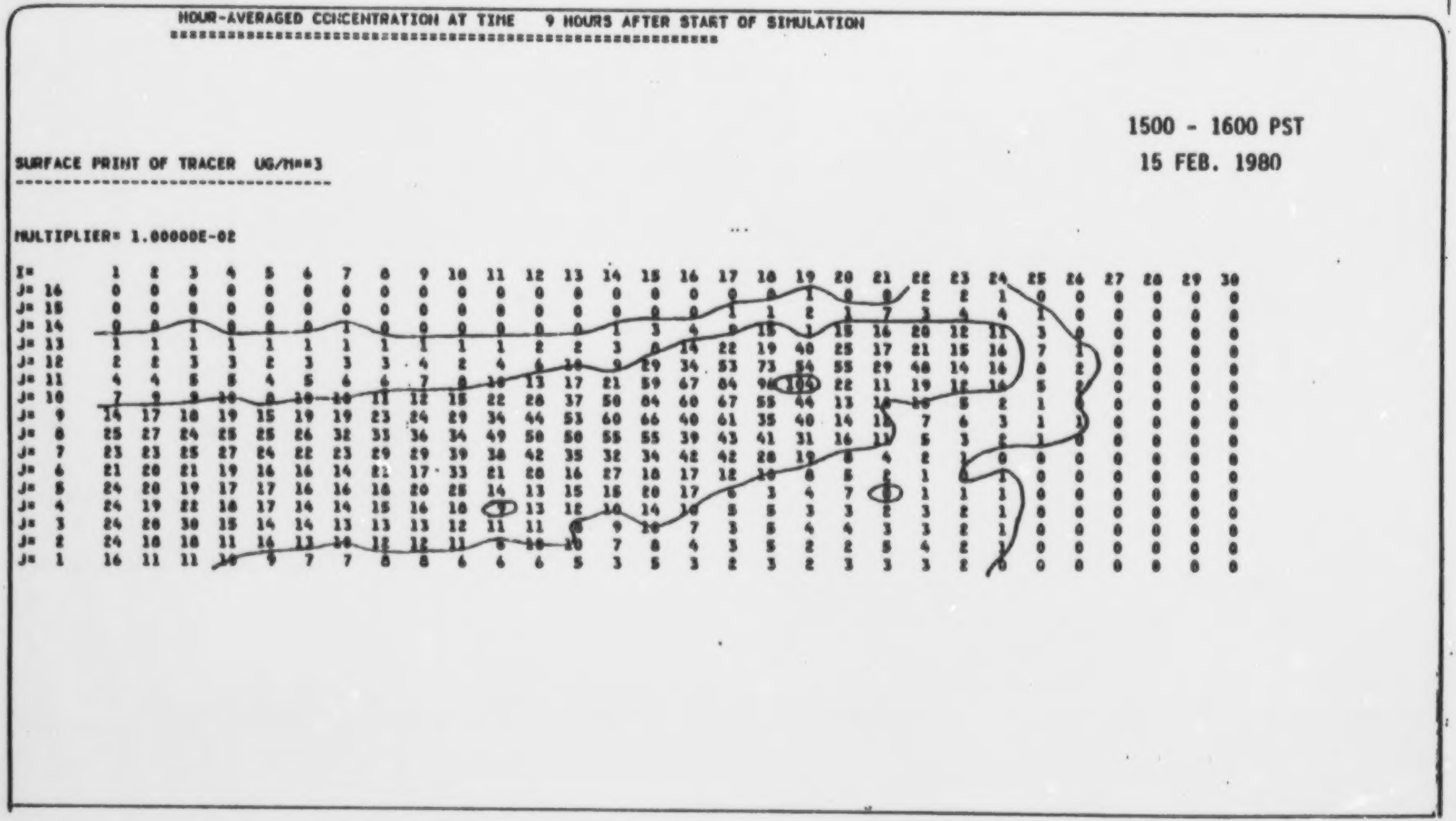
FIGURE D1-4h

1400 - 1500 PST
15 FEB. 1980



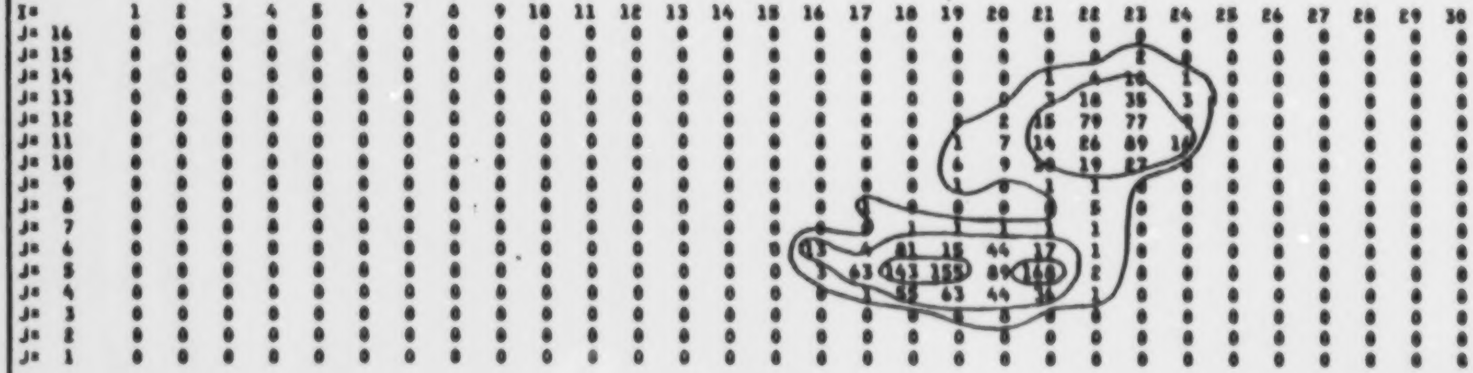
```
HOUR-AVERAGED CONCENTRATION AT TIME   8 HOURS AFTER START OF SIMULATION
=================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   1   1   5   6   9   0   0   0   0   0   0   0
J= 14     1   1   2   2   1   2   2   2   2   2   1   1   1   1   3   3   4   7   1   8  15  52  26   0   1   0   0   0   0   0
J= 13     4   3   4   6   4   6   7   4   6   5   6   7   8   5  14  16  16  13  24  24   9  47  91  43   7   0   0   0   0   0
J= 12     9  11  13  13  13  15  13  18  17  13  20  26  40  29  84  66  98 147  84 141 187 506 230  46  13   2   0   0   0   0
J= 11    20  25  27  32  33  35  37  37  40  46  45  63  81  60 108 162 241 478 409  67  87 222 263 103  21   3   0   0   0   0
J= 10    44  55  55  72  70  85  80  81  82  88 107 131 158 189 324 278 339 302 294  65  88 105  74 [illegible]   2   1   0   0   0   0
J=  9    96 122 133 143 150 166 160 165 173 194 216 250 282 340 414 358 382 474 442  70  94  60  32  18   5   1   0   0   0   0
J=  8   150 181 174 211 223 197 267 261 265 194 295 252 290 316 348 302 295 387 160  74  65  97  48  16   4   1   0   0   0   0
J=  7   146 159 142 182 189 183 222 426 390 307 253 383 274 375 335 340 304 181 217 117  99  47  19  13   4   1   0   0   0   0
J=  6   230 252 239 200 328 339 395 452 400 374 426 443 316 418 318 299 218 373 209 136  86  29  15   9   3   1   0   0   0   0
J=  5   337 387 398 439 419 460 473 502 480 445 473 315 364 319 321 316 154 136 138  77  43  34  12   9   2   1   0   0   0   0
J=  4   416 446 440 467 473 501 529 507 474 469 383 302 304 208 229 222 165 135  70  64  82  45  20   8   2   1   0   0   0   0
J=  3   439 453 415 519 502 487 462 428 398 351 339 215 207 147 139 163 111 100  81  58  61  48  25   9   3   1   0   0   0   0
J=  2   460 447 412 505 425 448 344 315 354 270 169 176 172 101 116 125  82  71  38  41  67  40  20  10   5   1   1   0   0   0
J=  1   336 338 309 333 307 299 260 257 235 171 162 118 109  79 105  79  50  35  31  41  41  28  17   6   5   3   2   1   1   1
```

FIGURE D1-4i



```
          HOUR-AVERAGED CONCENTRATION AT TIME    9 HOURS AFTER START OF SIMULATION
          ==============================================================

                                                                                   1500 - 1600 PST
SURFACE PRINT OF TRACER  UG/M**3                                                    15 FEB. 1980
---------------------------------


MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   2   2   1   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   1   7   3   4   4   1   0   0   0   0   0
J= 14     0   0   1   0   0   0   1   0   0   0   0   0   0   1   3   4   9  15   1  15  16  20  12  11   3   0   0   0   0   0
J= 13     1   1   1   1   1   1   1   1   1   1   1   2   2   3   8  14  22  19  40  25  17  21  15  16   7   1   0   0   0   0
J= 12     2   2   3   3   2   3   3   3   4   2   4   6  10   9  29  34  53  73  54  55  29  48  14  16   6   2   0   0   0   0
J= 11     4   4   5   5   4   5   6   6   7   8  10  13  17  21  59  67  84  96 104  22  11  19  12  14   5   2   0   0   0   0
J= 10     7   9   9  10   8  10  10  11  12  15  22  28  37  50  84  60  67  55  44  13  10  10   5   2   1   0   0   0   0   0
J=  9    14  17  18  19  15  19  19  23  24  29  34  44  53  60  66  40  61  35  40  14  15   7   6   3   1   1   0   0   0   0
J=  8    25  27  24  25  25  26  32  33  36  34  49  50  50  55  55  39  43  41  31  16  11   5   3   2   1   0   0   0   0   0
J=  7    23  23  25  27  24  22  23  29  29  39  38  42  35  32  34  42  42  28  19   8   4   2   1   0   0   0   0   0   0   0
J=  6    21  20  21  19  16  16  14  21  17  33  21  20  16  27  18  17  12  10   8   5   2   1   0   1   0   0   0   0   0   0
J=  5    24  20  19  17  17  16  16  18  20  25  14  13  15  15  20  17   6   3   4   7   8   1   1   1   0   0   0   0   0   0
J=  4    24  19  22  18  17  14  14  15  16  18   9  13  12  10  14  10   5   5   3   3   2   3   2   1   0   0   0   0   0   0
J=  3    24  20  30  15  14  14  13  13  13  12  11  11   8   9  10   7   3   5   4   4   3   3   2   1   0   0   0   0   0   0
J=  2    24  18  18  11  16  13  10  12  12  11   8  10  10   7   8   4   3   5   2   2   5   4   2   1   0   0   0   0   0   0
J=  1    16  11  11  10   9   7   7   8   8   6   6   6   5   3   5   3   2   3   2   3   3   3   2   0   0   0   0   0   0   0
```

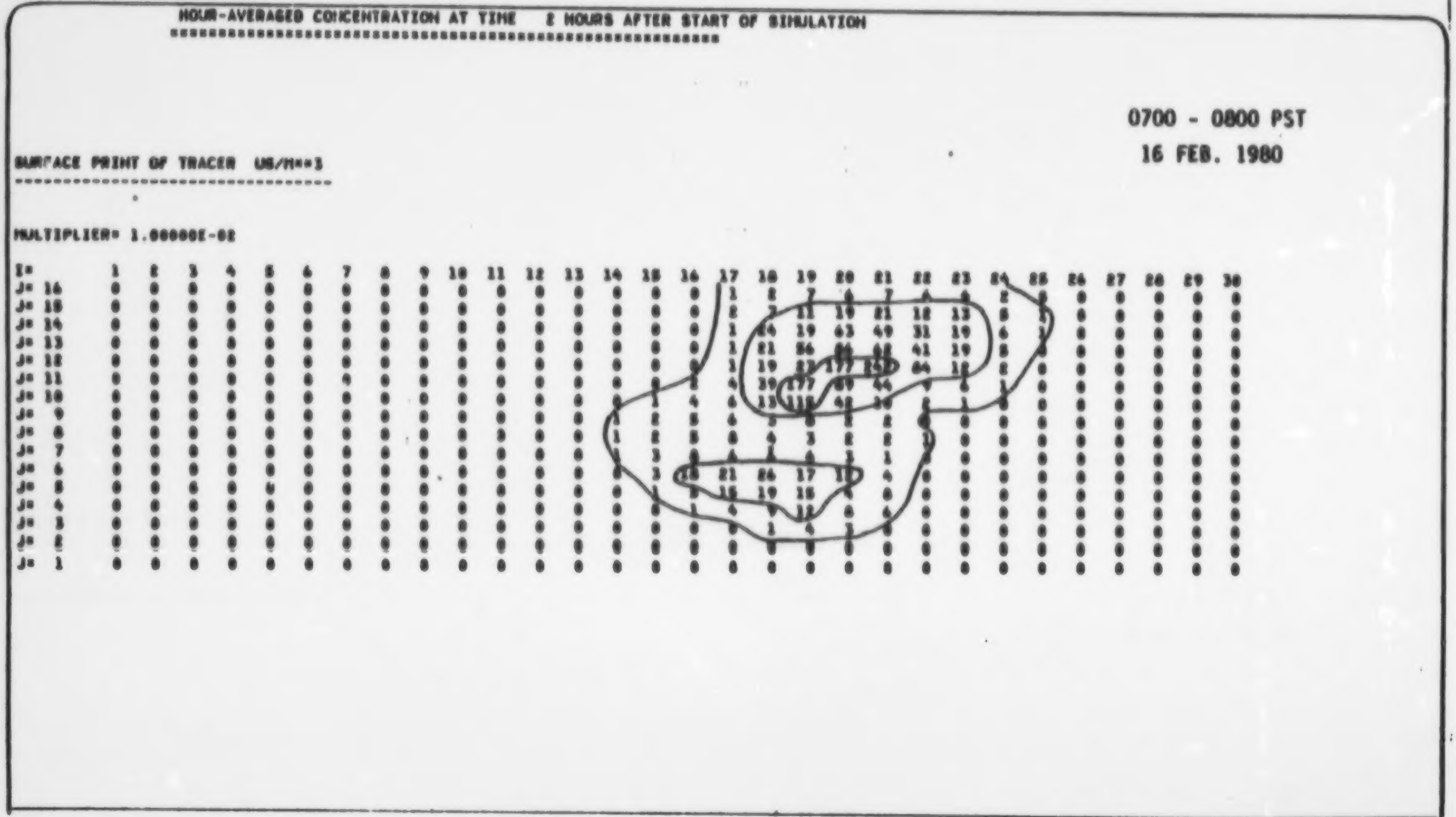
FIGURE D1-5a



```
          HOUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
          ==============================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03

I=          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   0   0   0   0   0   0   0
J= 14       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   6  10   1   0   0   0   0   0   0
J= 13       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  18  35   3   0   0   0   0   0   0
J= 12       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2  15  79  77   0   0   0   0   0   0   0
J= 11       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   7  14  26  89  16   0   0   0   0   0   0
J= 10       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   6   9  20  19  27   0   0   0   0   0   0   0
J=  9       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   1   1   0   0   0   0   0   0   0   0
J=  8       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   5   0   0   0   0   0   0   0   0
J=  7       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   1   0   0   0   0   0   0   0   0
J=  6       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0  13   4  81  15  44  17   1   0   0   0   0   0   0   0   0
J=  5       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  63 143 155  89 168   2   0   0   0   0   0   0   0   0
J=  4       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  55  63  44  16   1   0   0   0   0   0   0   0   0
J=  3       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

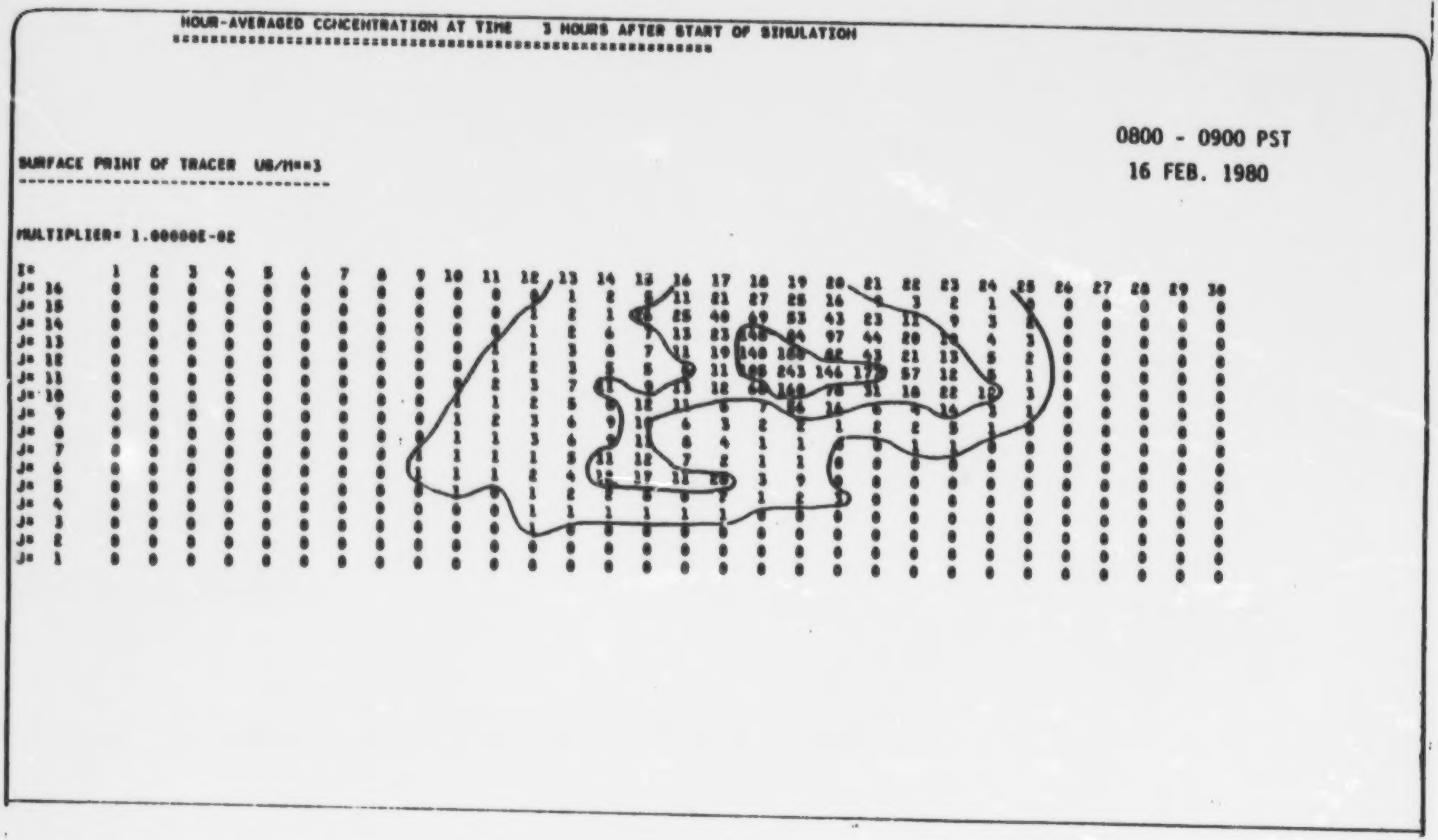
0600 - 0700 PST
16 FEB. 1980

FIGURE D1-5b



```
            HOUR-AVERAGED CONCENTRATION AT TIME   2 HOURS AFTER START OF SIMULATION
           ============================================================

                                                                                  0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                                                   16 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   7   6   7   6   6   2   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   3  11  19  21  18  13   5   1   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  24  19  63  49  31  19   6   1   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  21  56 [illegible] [illegible]  41  19   5   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  19  27 177 252  64  12   2   0   0   0   0   0   0
J= 11     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4  39 177  89  44   7   6   1   0   0   0   0   0   0
J= 10     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   6  13 118  41  20   2   1   0   0   0   0   0   0   0
J=  9     0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   6   5 [illegible]   3   2   6   0   0   0   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   8   4   3   2   2   1   0   0   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8   6   1   6   3   1   1   0   0   0   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  16  21  26  17  11   4   0   0   0   0   0   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   5  15  19  15   5   0   0   0   0   0   0   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   6   5  12   6   6   0   0   0   0   0   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   3   0   0   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-5c



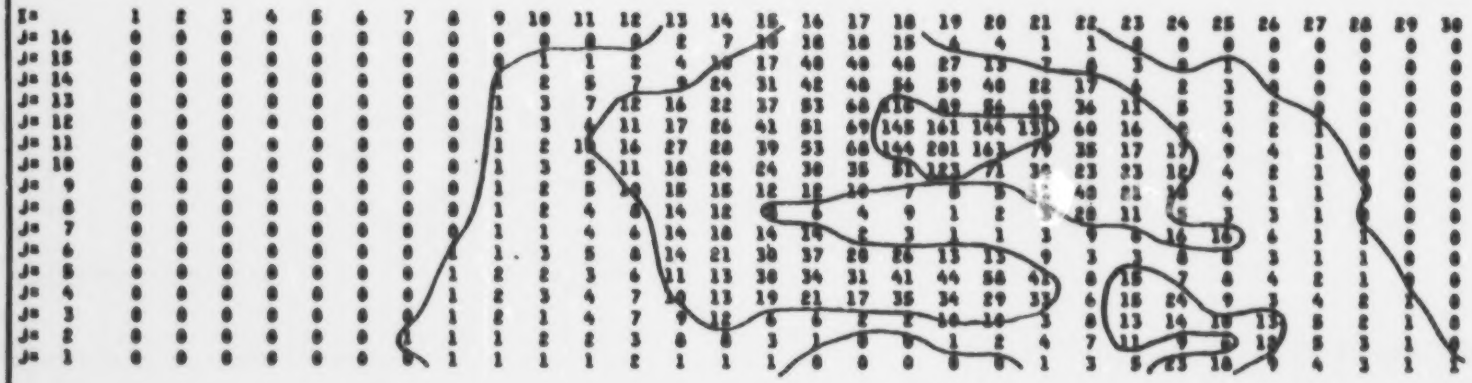
```
HOUR-AVERAGED CONCENTRATION AT TIME   3 HOURS AFTER START OF SIMULATION
==========================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
J= 16   0  0  0  0  0  0  0  0  0  0  0  0  1  2  5 11 21 27 25 16 [illegible] 3 2 1 0 0 0 0 0 0
J= 15   0  0  0  0  0  0  0  0  0  0  0  1  2  1 [illegible] 25 40 49 53 43 23 11 9 3 [illegible] 0 0 0 0 0
J= 14   0  0  0  0  0  0  0  0  0  0  0  1  2  6  7 13 23 [illegible] [illegible] 97 44 20 [illegible] 4 3 0 0 0 0 0
J= 13   0  0  0  0  0  0  0  0  0  0  1  1  3  6  7 11 19 140 [illegible] [illegible] 43 21 13 5 2 0 0 0 0 0
J= 12   0  0  0  0  0  0  0  0  0  0  1  2  3  5  5 [illegible] 11 [illegible] 243 146 [illegible] 57 12 5 1 0 0 0 0 0
J= 11   0  0  0  0  0  0  0  0  0  0  2  3  7 [illegible] [illegible] [illegible] 12 [illegible] [illegible] [illegible] 31 18 22 [illegible] 3 0 0 0 0 0
J= 10   0  0  0  0  0  0  0  0  0  1  1  2  5 [illegible] 12 11 [illegible] 7 [illegible] 16 [illegible] [illegible] 14 [illegible] 1 0 0 0 0 0
J=  9   0  0  0  0  0  0  0  0  0  1  2  3  6  9 [illegible] 6  3  2  2  1  2  2  3  1  0  0  0  0  0  0
J=  8   0  0  0  0  0  0  0  0  0  1  1  3  6 [illegible] [illegible] 8 4 1 1 [illegible] [illegible] 1 1 0 0 0 0 0 0 0
J=  7   0  0  0  0  0  0  0  0  1  1  1  1  5 11 12  7  2  1  1  0  0  0  0  0  0  0  0  0  0  0
J=  6   0  0  0  0  0  0  0  0  1  1  1  2  4 [illegible] 17 11 20 3 9 0 0 0 0 0 0 0 0 0 0 0
J=  5   0  0  0  0  0  0  0  0  0  1  0  1  2 [illegible] [illegible] [illegible] [illegible] 1 2 0 0 0 0 0 0 0 0 0 0 0
J=  4   0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3   0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

0800 - 0900 PST
16 FEB. 1980

FIGURE D1-5d

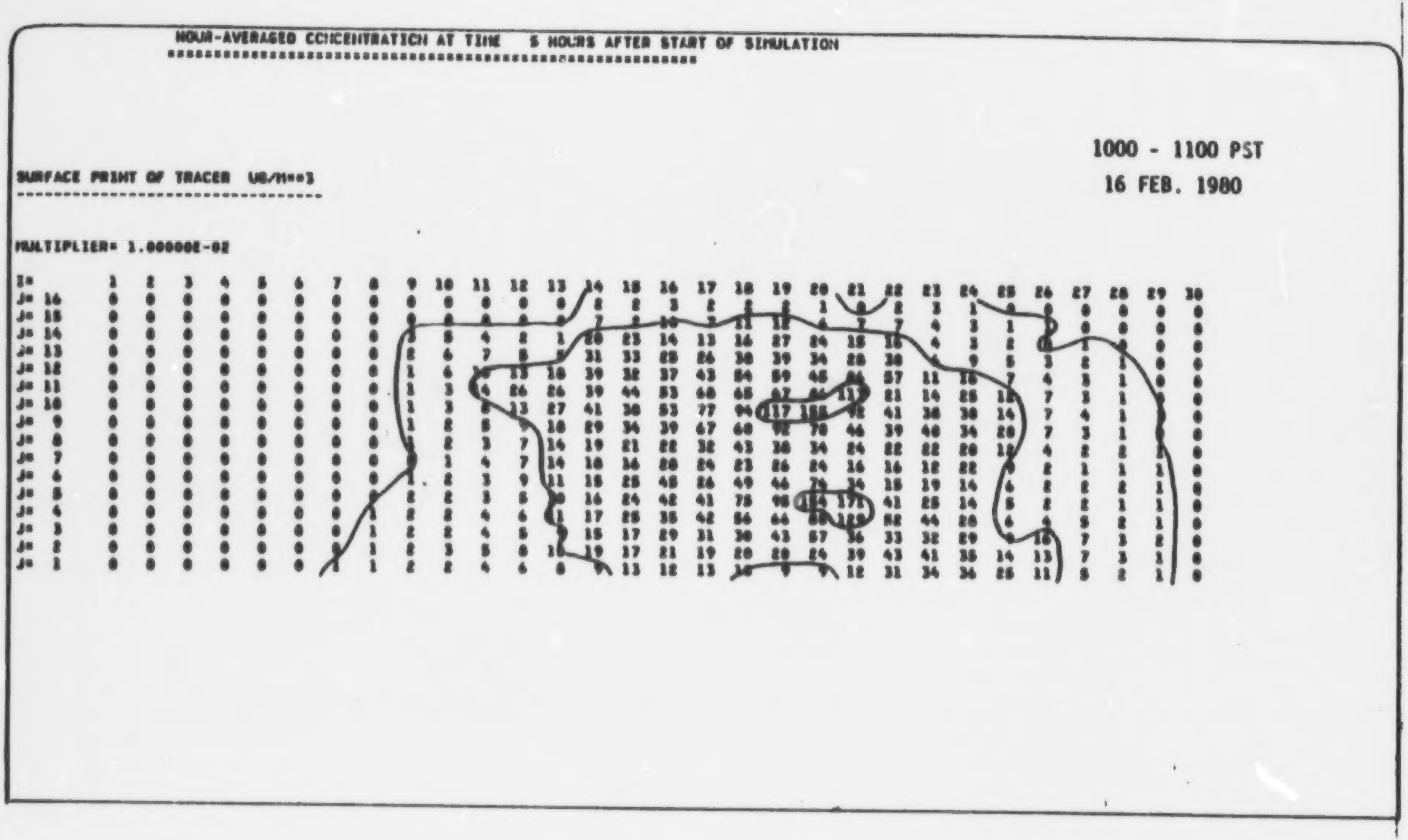
```
HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
*************************************************************
```

0900 - 1000 PST
16 FEB. 1980



```
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   2   7  10  18  18  15   4   4   1   1   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   1   1   2   4  10  17  40  40  40  27  13   7   0   3   0   1   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   1   2   5   7   9  24  31  42  48  56  59  40  22  17   4   2   3   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   1   3   7  12  16  22  37  53  68 116  89  86  49  36  11   5   3   2   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   1   3   6  11  17  26  41  51  69 145 161 144 130  60  16   6   4   2   1   0   0   0
J= 11     0   0   0   0   0   0   0   0   1   2  10  16  27  28  39  53  68 144 201 163  79  35  17  17   9   4   1   0   0   0
J= 10     0   0   0   0   0   0   0   0   1   3   5  11  18  24  24  30  35  51 123  71  39  23  23  12   4   2   1   0   0   0
J=  9     0   0   0   0   0   0   0   0   1   2   5  10  15  15  12  12  10   7   8   5      40  21  10   4   1   1   0   0   0
J=  8     0   0   0   0   0   0   0   0   1   2   4   6  14  12   0   6   4   9   1   2      20  11   5   3   3   1   0   0   0
J=  7     0   0   0   0   0   0   0   0   1   1   4   6  14  18  14  14   2   3   1   1   3   9   6  16  16   6   1   1   0   0
J=  6     0   0   0   0   0   0   0   1   1   3   5   8  14  21  30  37  20  26  13  13   9   3   3   0   0   3   1   1   0   0
J=  5     0   0   0   0   0   0   0   1   2   2   3   6  11  13  30  34  31  41  44  58  41   8  15   7   8   4   2   1   0   0
J=  4     0   0   0   0   0   0   0   1   2   3   4   7  10  13  19  21  17  35  34  29  33   6  18  24   9   3   4   2   1   0
J=  3     0   0   0   0   0   0   0   1   2   1   4   7   9  12   6   6   2   2  10  10   3   8  13  14  10  13   5   2   1   0
J=  2     0   0   0   0   0   0   1   1   1   2   2   3   8   8   3   1   0   0   1   2   4   7  11   9   0  12   5   3   1   0
J=  1     0   0   0   0   0   0   0   1   1   1   1   2   1   1   1   0   0   0   0   0   1   3   5  23  10   0   4   3   1   1
```

FIGURE D1-5e



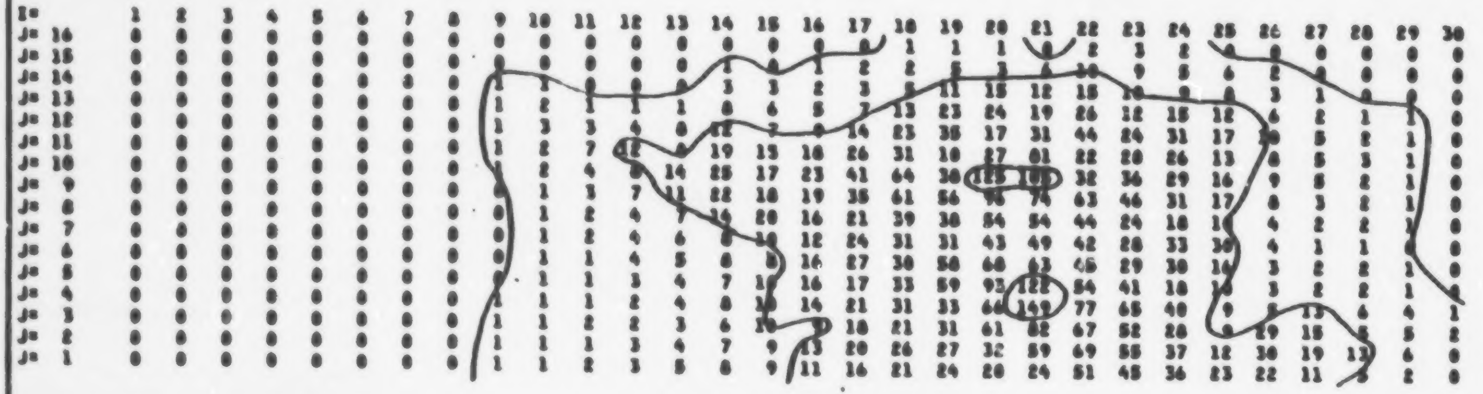
```
          HOUR-AVERAGED CONCENTRATION AT TIME   5 HOURS AFTER START OF SIMULATION
          ************************************************************

                                                                                      1000 - 1100 PST
SURFACE PRINT OF TRACER  UG/M**3                                                       16 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16      0   0   0   0   0   0   0   0   0   0   0   0   0   2   2   3   2   2   2   1   0   2   3   1   0   0   0   0   0   0
J= 15      0   0   0   0   0   0   0   0   0   0   0   0   0   7   8  10   7  11  12   4   7   7   4   3   1   0   0   0   0   0
J= 14      0   0   0   0   0   0   0   0   1   5   4   2   1  20  23  14  13  16  27  24  15  16   4   3   2   1   1   0   0   0
J= 13      0   0   0   0   0   0   0   0   2   6   7   5   9  31  33  25  26  30  39  34  28  30   4   9   5   3   2   1   0   0
J= 12      0   0   0   0   0   0   0   0   1   6  10  13  18  39  32  37  43  54  59  45  84  57  11  16   7   4   3   1   0   0
J= 11      0   0   0   0   0   0   0   0   1   3  14  26  26  39  44  53  68  65  67  84 112  21  14  25  12   7   3   1   0   0
J= 10      0   0   0   0   0   0   0   0   1   3   8  13  27  41  30  53  77  94 117 155  92  41  38  30  14   7   4   1   0   0
J=  9      0   0   0   0   0   0   0   0   1   2   5   9  18  29  34  39  67  60  92  78  46  39  40  34  20   7   3   1   0   0
J=  8      0   0   0   0   0   0   0   0   1   2   3   7  14  19  21  22  32  43  30  34  24  22  22  20  12   4   2   2   1   0
J=  7      0   0   0   0   0   0   0   0   0   1   4   7  14  18  16  20  24  23  26  24  16  16  12  22   9   2   1   1   1   0
J=  6      0   0   0   0   0   0   0   0   1   2   3   9  11  15  25  45  26  49  46  75  34  15  19  14   6   2   2   2   1   0
J=  5      0   0   0   0   0   0   0   0   2   2   3   5  10  16  24  42  41  75  98 124 171  41  25  14   5   2   2   1   1   0
J=  4      0   0   0   0   0   0   0   1   2   2   4   6  11  17  25  35  42  56  64  88 129  52  44  20   6   4   5   2   1   0
J=  3      0   0   0   0   0   0   0   1   2   2   4   5   9  15  17  29  31  30  43  57  36  33  32  29   9  16   7   1   2   0
J=  2      0   0   0   0   0   0   0   1   2   3   5   8  10  19  17  21  19  20  20  24  39  43  41  35  14  13   7   3   1   0
J=  1      0   0   0   0   0   0   0   1   2   2   4   6   8   9  13  12  13  10   9   9  12  31  34  36  25  11   5   2   1   0
```

FIGURE D1-5f

```
HOUR-AVERAGED CONCENTRATION AT TIME    6 HOURS AFTER START OF SIMULATION
*************************************************************
```

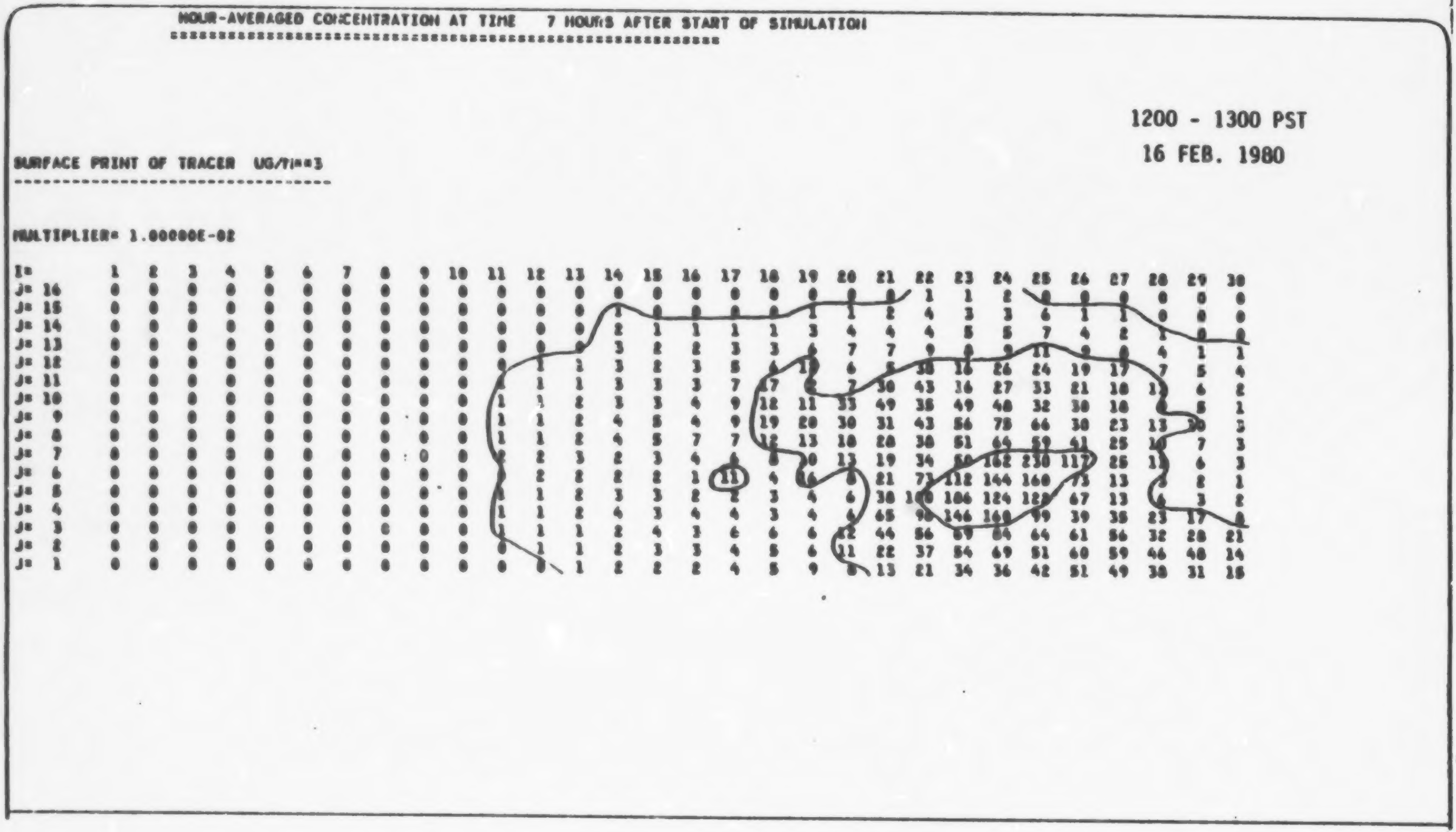
1100 - 1200 PST
16 FEB. 1980

```
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02
```



```
I=          1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16       0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   0   2   3   2   0   0   0   0   0   0
J= 15       0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   1   2   2   5   3   6  10   9   5   6   2   0   0   0   0
J= 14       0   0   0   0   0   0   0   0   1   1   0   0   0   3   3   2   3   5  11  15  12  18  10   0   0   3   1   0   0   0
J= 13       0   0   0   0   0   0   0   0   1   2   1   1   1   8   6   5   7  13  23  24  19  26  12  15  12   6   2   1   1   0
J= 12       0   0   0   0   0   0   0   0   1   3   3   4   8  12   7   8  14  23  35  17  31  44  24  31  17 [illegible]   5   2   1   0
J= 11       0   0   0   0   0   0   0   0   1   2   7  12 [illegible]  19  13  18  26  31  18  27  81  22  20  26  13   8   5   3   1   0
J= 10       0   0   0   0   0   0   0   0   1   2   4 [illegible]  14  25  17  23  41  64  30 125 [illegible]  32  36  29  16   9   8   2   1   0
J=  9       0   0   0   0   0   0   0   0   0   1   3   7  11  22  18  19  35  61  56  96  74  63  46  31  17   8   3   2   1   0
J=  8       0   0   0   0   0   0   0   0   0   1   2   4   7  14  20  16  21  39  38  54  54  44  24  18 [illegible]   4   2   2   1   0
J=  7       0   0   0   0   0   0   0   0   0   1   2   4   6   8 [illegible]  12  24  31  31  43  49  42  28  33  30   4   1   1   0   0
J=  6       0   0   0   0   0   0   0   0   0   1   1   4   5   8   8  16  27  30  50  68  63  46  29  30  16   3   2   2   1   0
J=  5       0   0   0   0   0   0   0   0   0   1   1   3   4   7 [illegible]  16  17  33  59  93 122  54  41  18 [illegible]   3   2   2   1   0
J=  4       0   0   0   0   0   0   0   0   1   1   1   2   4   8 [illegible]  14  21  31  33  66 149  77  65  40   9   3  13   6   4   1
J=  3       0   0   0   0   0   0   0   0   1   1   2   2   3   6  10 [illegible]  18  21  31  61  82  67  52  28   9  29  15   5   5   2
J=  2       0   0   0   0   0   0   0   0   1   1   1   3   4   7   9  13  20  26  27  32  59  69  55  37  12  30  19  13   6   0
J=  1       0   0   0   0   0   0   0   0   1   1   2   3   5   8   9  11  16  21  24  28  24  51  45  36  23  22  11 [illegible]   2   0
```

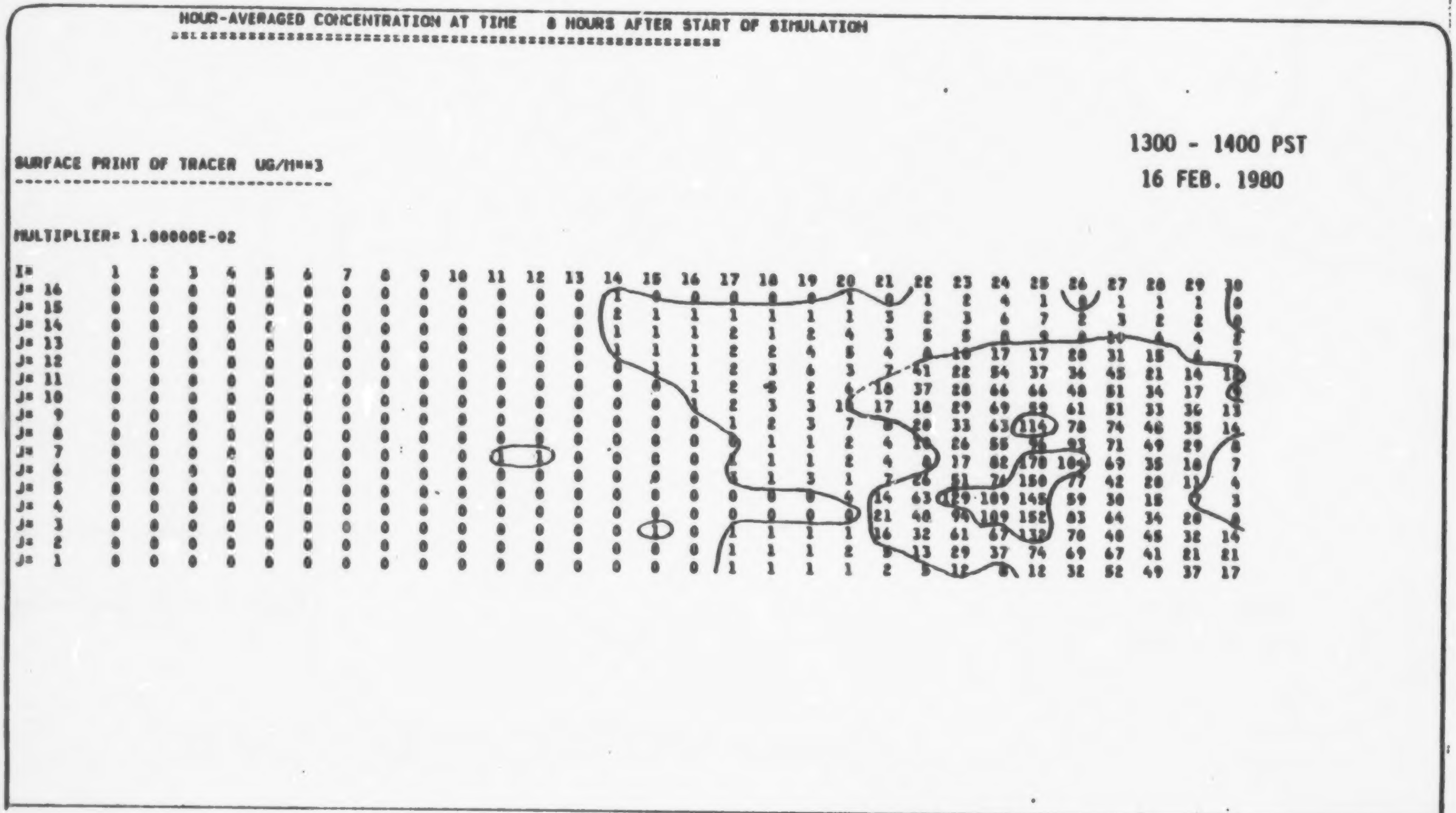
FIGURE D1-5g



1200 - 1300 PST
16 FEB. 1980

```
          HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
          ==========================================================


SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02

I=         1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
J= 16      0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    1    1    2    0    0    0    0    0    0
J= 15      0    0    0    0    0    0    0    0    0    0    0    0    0    1    0    0    0    0    1    1    2    4    3    3    6    1    1    0    0    0
J= 14      0    0    0    0    0    0    0    0    0    0    0    0    0    2    1    1    1    1    3    4    4    4    5    5    7    4    2    1    0    0
J= 13      0    0    0    0    0    0    0    0    0    0    0    0    0    3    2    2    3    3    6    7    7    9    8    9   11    9    8    4    1    1
J= 12      0    0    0    0    0    0    0    0    0    0    0    1    1    3    2    3    5    4   12    6    5   30   16   26   24   19   17    7    5    4
J= 11      0    0    0    0    0    0    0    0    0    0    1    1    1    3    3    3    7   17    8    7   30   43   16   27   33   21   18   12    6    2
J= 10      0    0    0    0    0    0    0    0    0    0    1    1    2    3    3    4    9   12   11   33   49   35   49   48   32   30   18    8    5    1
J=  9      0    0    0    0    0    0    0    0    0    0    1    1    2    4    5    4    9   19   20   30   31   43   56   75   66   30   23   13   10    3
J=  8      0    0    0    0    0    0    0    0    0    0    1    1    2    4    5    7    7   12   13   18   20   30   51   64   59   41   25   10    7    3
J=  7      0    0    0    0    0    0    0    0    0    0    2    2    3    2    3    4    6    8   10   13   19   34   50  162  230  117   25   11    6    3
J=  6      0    0    0    0    0    0    0    0    0    0    2    2    2    2    2    1   11    4    6    8   21   73  112  144  160   73   13    8    2    1
J=  5      0    0    0    0    0    0    0    0    0    0    1    1    2    3    3    2    2    3    4    6   38  100  106  124  122   67   13    6    3    2
J=  4      0    0    0    0    0    0    0    0    0    0    1    1    2    4    3    4    4    3    4    6   65   98  146  160   99   39   35   23   17    8
J=  3      0    0    0    0    0    0    0    0    0    0    1    1    1    2    4    3    6    6    6   12   44   56   59   64   64   61   56   32   28   21
J=  2      0    0    0    0    0    0    0    0    0    0    0    1    1    2    3    3    4    5    6   11   22   37   54   69   51   60   59   46   48   14
J=  1      0    0    0    0    0    0    0    0    0    0    0    0    1    2    2    2    4    5    9    8   13   21   34   36   42   51   49   38   31   18
```

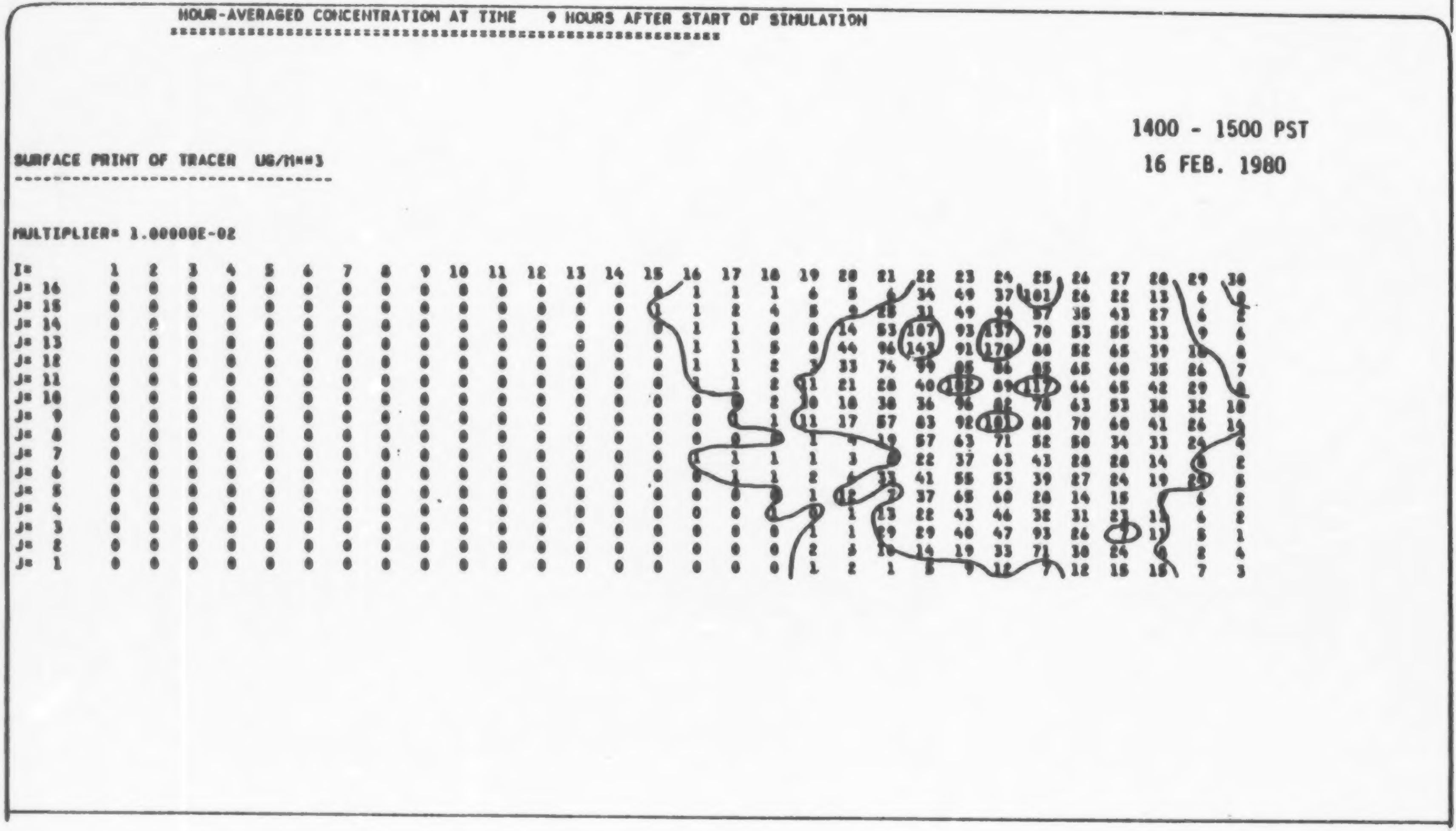
FIGURE D1-5h



```
HOUR-AVERAGED CONCENTRATION AT TIME   8 HOURS AFTER START OF SIMULATION
=====================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   1   0   1   2   4   1   0   1   1   1   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   2   1   1   1   1   1   1   3   2   3   6   7   2   3   2   2   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   1   2   4   3   5   5   8   9   8  10   4   4   2
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   2   4   5   4   8  10  17  17  20  31  15   6   7
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   3   6   3   7  41  22  54  37  36  45  21  14  [illegible]
J= 11     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   2   6  18  37  28  66  66  48  51  34  17  [illegible]
J= 10     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   3  [illegible]  17  18  29  69  59  61  51  33  36  13
J=  9     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   7   8  20  33  63 114  78  74  46  35  14
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   4  18  26  55  [illegible]  93  71  49  29   8
J=  7     0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   1   1   1   2   4   8  17  82 170 104  69  35  18   7
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   3   1   7  26  51  74 150  77  42  20  11   4
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   4  14  63 129 109 145  59  30  15   8   3
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0  21  40  94 109 152  83  64  34  20   8
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   1   1   1   1  16  32  61  67 132  70  40  45  32  14
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   5  13  29  37  74  69  67  41  21  21
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   2   5  12   8  12  32  52  49  37  17
```

1300 - 1400 PST
16 FEB. 1980

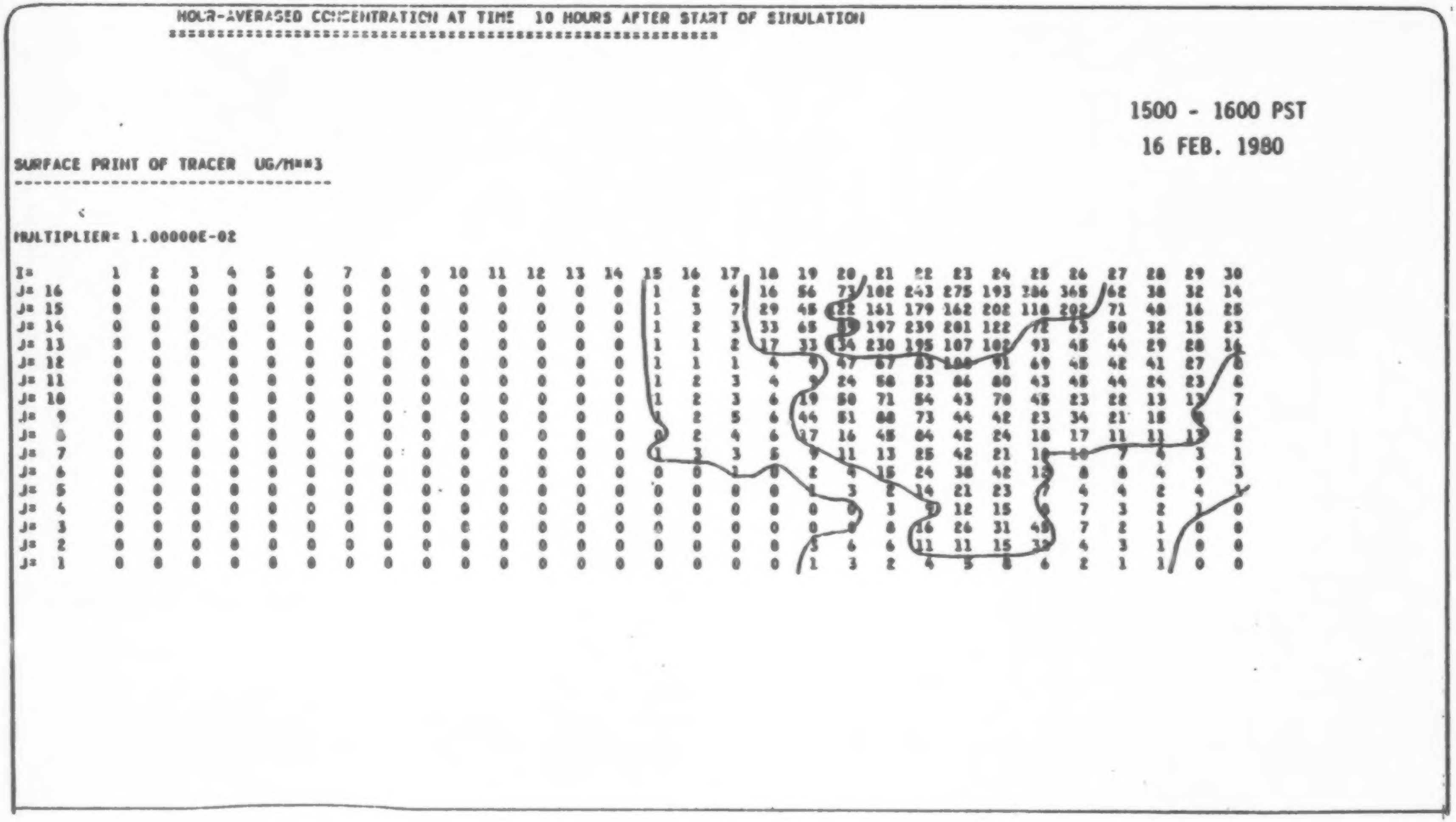
FIGURE D1-5i



1400 - 1500 PST
16 FEB. 1980

```
          HOUR-AVERAGED CONCENTRATION AT TIME    9 HOURS AFTER START OF SIMULATION
          ================================================================


SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   6   5   6  34  49  37 101  26  22  13   6   9
J= 15   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   4   5   9  25  31  49  94  57  35  43  27   6   2
J= 14   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   8   8  14  53 107  93 137  70  53  55  33   9   6
J= 13   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   5   8  44  96 143  91 170  88  52  65  39 [illegible] 8
J= 12   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   3  33  74  99  85  86  85  65  60  35  26   7
J= 11   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2  11  21  28  40 102  89 117  66  65  42  29   8
J= 10   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2  10  18  38  36  96  82  78  63  53  38  32  18
J=  9   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  11  17  57  83  92 101  88  70  60  41  26  14
J=  8   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4  19  57  63  71  52  50  34  33  24   6
J=  7   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   3 [illegible] 22  37  63  43  28  28  14   6   2
J=  6   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   4  33  41  55  53  39  27  24  19  20   5
J=  5   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  12   7  37  65  60  28  14  15 [illegible] 6   2
J=  4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  13  22  43  46  32  31  23  11   6   2
J=  3   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1  29  29  40  47  93  26 [illegible] 11   5   1
J=  2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   3  10  14  19  33  71  30  24   9   2   4
J=  1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   1   5   9  12   7  12  15  15   7   3
```

FIGURE D1-5j

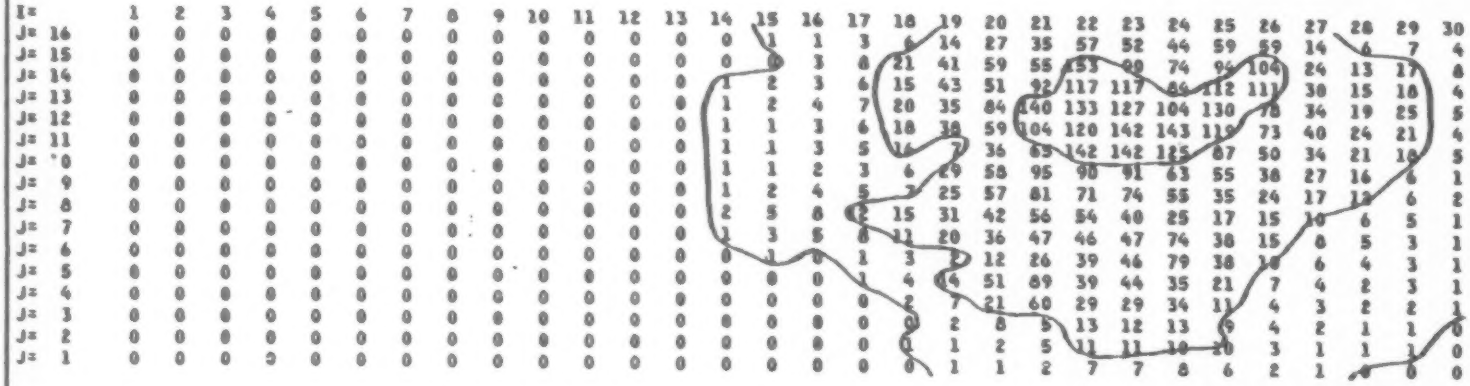


```
          HOUR-AVERAGED CONCENTRATION AT TIME  10 HOURS AFTER START OF SIMULATION
          ====================================================================

                                                                                    1500 - 1600 PST
                                                                                     16 FEB. 1980
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  6  16  56  73 102 243 275 193 286 365  62  38  32  14
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  7  29  45 122 161 179 162 202 118 202  71  48  16  25
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  33  65 [illegible] 197 239 201 122  72  63  50  32  15  23
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  17  33 134 230 195 107 102  93  45  44  29  28  16
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1   4   9  47  67  83 100  91  69  45  42  41  27   8
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3   4   9  24  58  53  86  80  43  45  44  24  23   6
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3   6  19  50  71  54  43  70  45  23  22  13  13   7
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  5   6  44  51  88  73  44  42  23  34  21  18 [illegible]   6
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4   6  17  16  45  64  42  24  18  17  11  11  13   2
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  3   5   9  11  13  25  42  21  10  10   7   4   3   1
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1   0   2   4  15  24  38  42  12   8   8   4   9   3
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   1   3   2  14  21  23   7   4   4   2   4   1
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   0   0   3   9  12  15   6   7   3   2   1   0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   0   0   8  16  26  31  45   7   2   1   0   0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   3   6   6  11  11  15  32   4   3   1   0   0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   1   3   2   4   5   8   6   2   1   1   0   0
```

FIGURE D1-5k

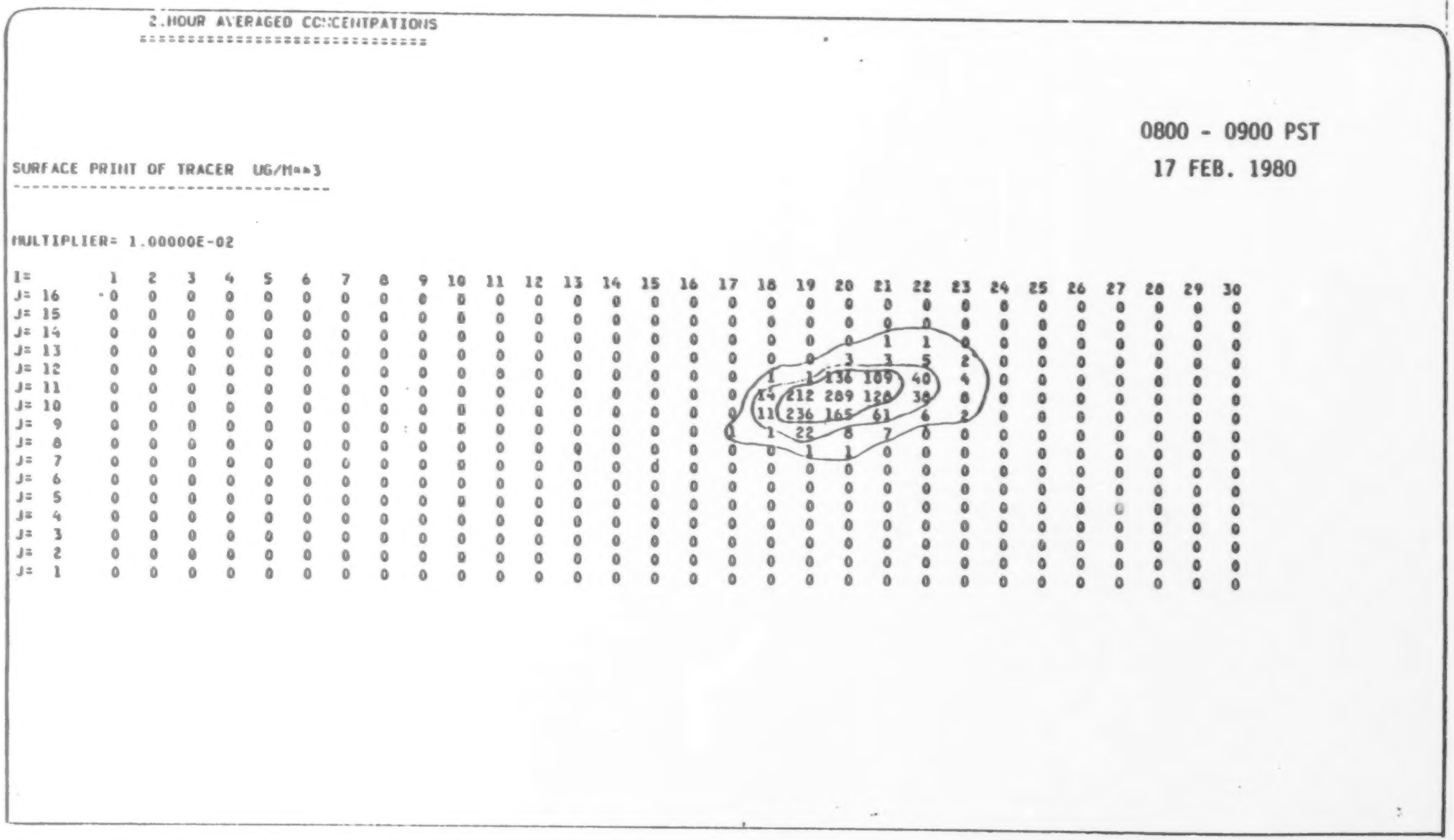
```
          HOUR-AVERAGED CONCENTRATION AT TIME  11 HOURS AFTER START OF SIMULATION
          ==========================================================
```

1600 - 1700 PST
16 FEB. 1980



```
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3   6  14  27  35  57  52  44  59  59  14   6   7   4
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  8  21  41  59  55 153  90  74  94 104  24  13  17   8
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  6  15  43  51  92 117 117  84 112 111  30  15  18   4
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  7  20  35  84 140 133 127 104 130  78  34  19  25   5
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  6  18  38  59 104 120 142 143 119  73  40  24  21   4
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  5  16   7  36  65 142 142 125  87  50  34  21  18   5
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  3   6  29  58  95  90  91  63  55  38  27  16   6   1
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  5   7  25  57  81  71  74  55  35  24  17  12   6   2
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  2  5  8 12  15  31  42  56  54  40  25  17  15  10   6   5   1
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  5  8  11  20  36  47  46  47  74  38  15   8   5   3   1
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  1   3   7  12  26  39  46  79  38  10   6   4   3   1
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1   4  14  51  69  39  44  35  21   7   4   2   3   1
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   2   7  21  60  29  29  34  11   4   3   2   2   1
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   2   8   5  13  12  13   9   4   2   1   1   0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   1   2   5  11  11  10  10   3   1   1   1   0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0   0   1   1   2   7   7   8   6   2   1   0   0   0
```

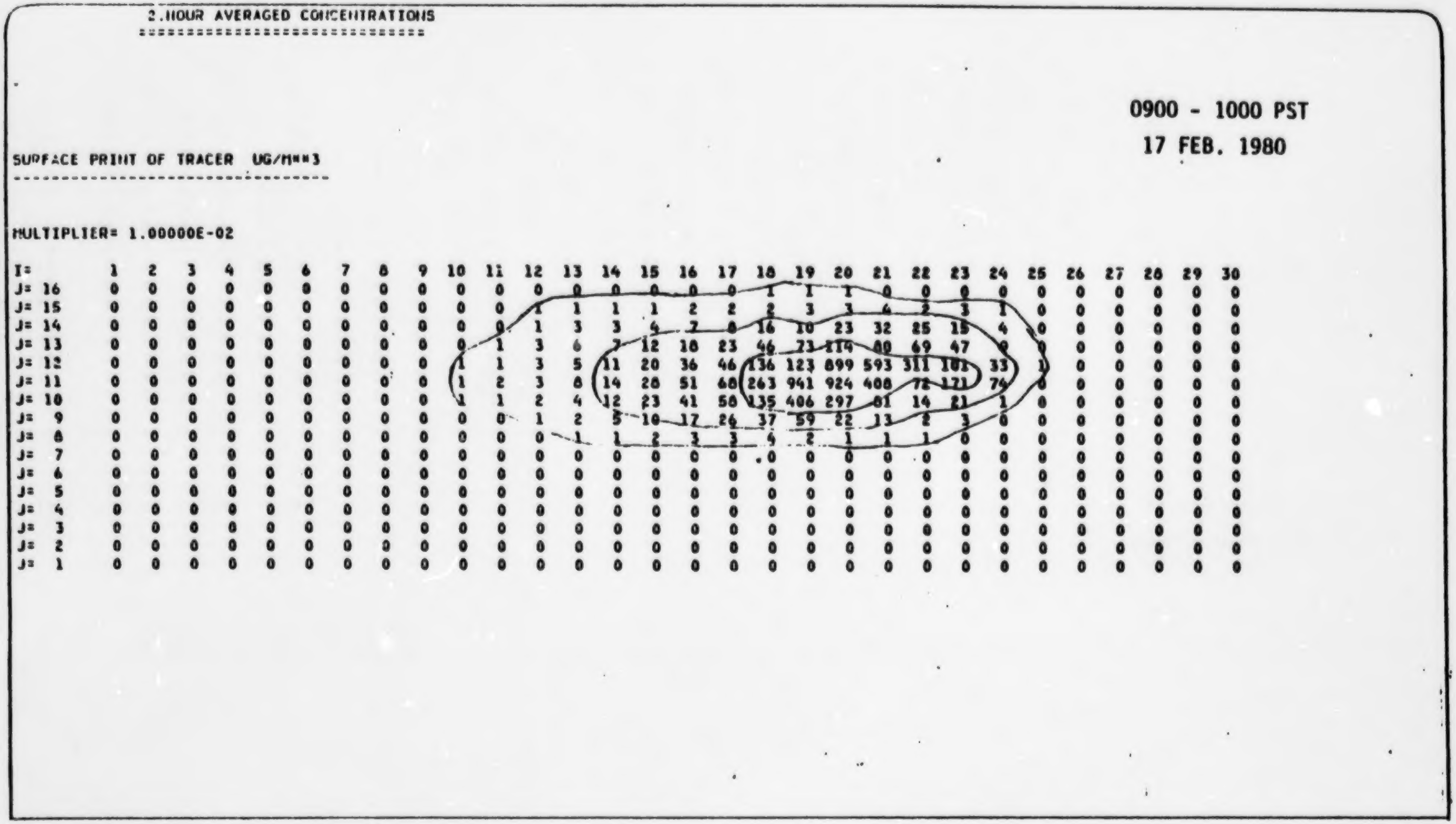
FIGURE D1-6a



```
         2.HOUR AVERAGED CONCENTPATIONS
         ==============================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0
J= 13      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   3   5   2   0   0   0   0   0   0   0
J= 12      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1 136 109  40   4   0   0   0   0   0   0   0
J= 11      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0  14 212 289 120  38   8   0   0   0   0   0   0   0
J= 10      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0  11 236 165  61   6   2   0   0   0   0   0   0   0
J=  9      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  22   8   7   0   0   0   0   0   0   0   0   0
J=  8      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0   0   0
J=  7      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

0800 - 0900 PST
17 FEB. 1980

FIGURE D1-6b

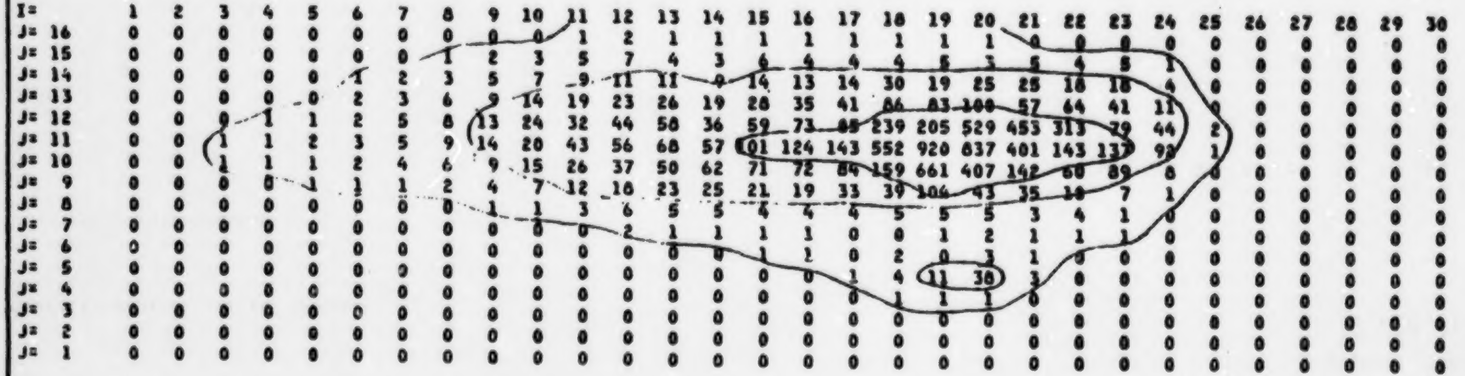


```
          2.HOUR AVERAGED CONCENTRATIONS
          ==============================

                                                                                   0900 - 1000 PST
                                                                                    17 FEB. 1980
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   2   2   2   3   3   4   2   3   1   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   1   3   3   4   7   8  16  10  23  32  25  15   4   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   1   3   6   7  12  18  23  46  73 114  80  69  47   9   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   1   1   3   5  11  20  36  46 136 123 899 593 311 181  33   1   0   0   0   0   0
J= 11     0   0   0   0   0   0   0   0   0   1   2   3   8  14  28  51  68 263 941 924 408  72 171  74   0   0   0   0   0   0
J= 10     0   0   0   0   0   0   0   0   0   1   1   2   4  12  23  41  58 135 406 297  81  14  21   1   0   0   0   0   0   0
J=  9     0   0   0   0   0   0   0   0   0   0   0   1   2   5  10  17  26  37  59  22  13   2   3   0   0   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   3   3   4   2   1   1   1   0   0   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-Gc

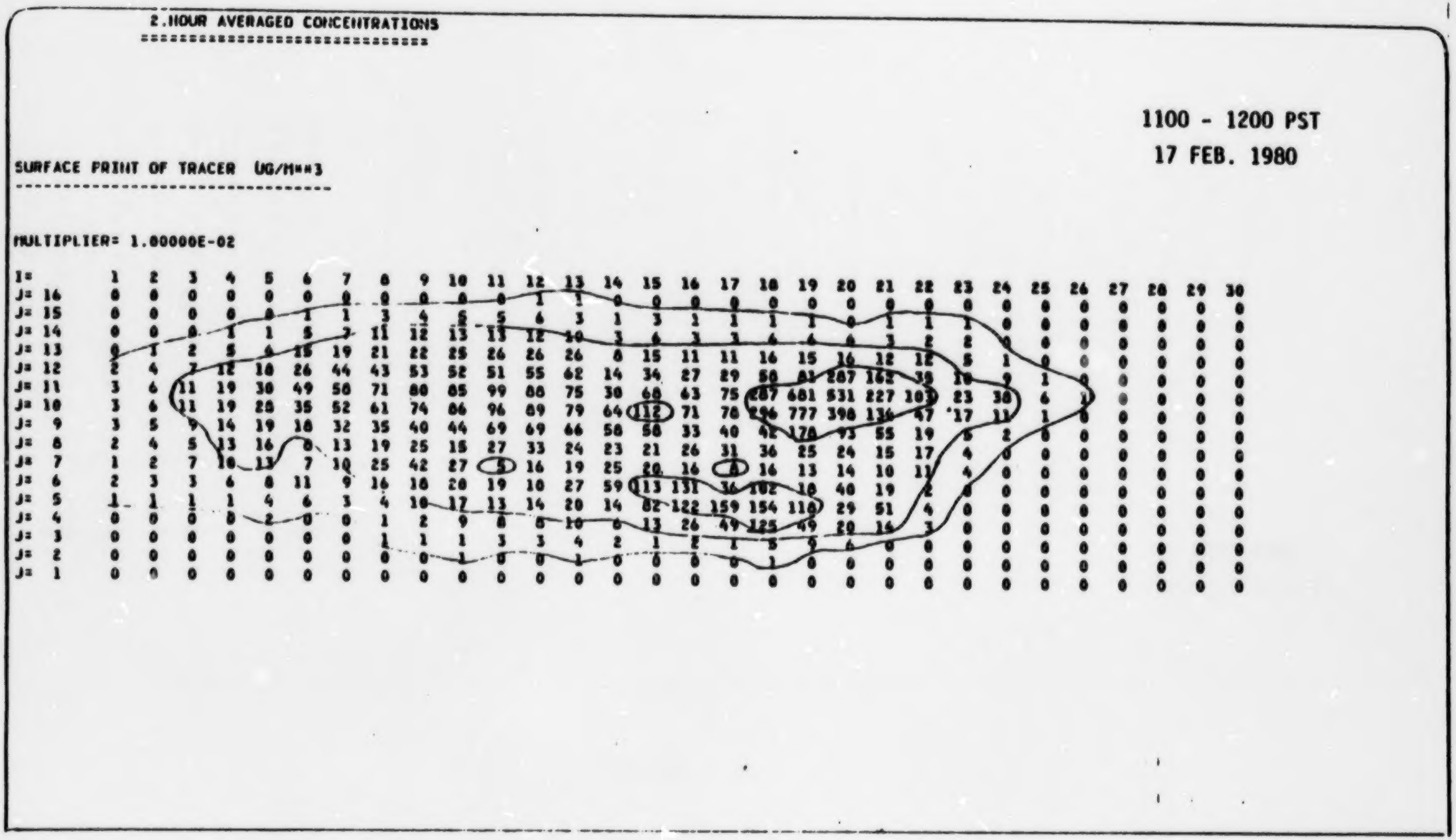
```
2.HOUR AVERAGED CONCENTRATIONS
==============================
```

1000 - 1100 PST
17 FEB. 1980



```
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------


MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   1   2   1   1   1   1   1   1   1   1   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   1   2   3   5   7   4   3   6   4   4   4   5   3   5   4   5   1   0   0   0   0   0   0
J= 14     0   0   0   0   0   1   2   3   5   7   9  11  11   9  14  13  14  30  19  25  25  18  18   4   0   0   0   0   0   0
J= 13     0   0   0   0   0   2   3   6   9  14  19  23  26  19  28  35  41  86  83 100  57  64  41  11   0   0   0   0   0   0
J= 12     0   0   0   1   1   2   5   8  13  24  32  44  58  36  59  73  85 239 205 529 453 313  79  44   2   0   0   0   0   0
J= 11     0   0   1   1   2   3   5   9  14  20  43  56  68  57 101 124 143 552 920 837 401 143 137  92   1   0   0   0   0   0
J= 10     0   0   1   1   1   2   4   6   9  15  26  37  50  62  71  72  84 159 661 407 142  60  89   8   0   0   0   0   0   0
J=  9     0   0   0   0   1   1   1   2   4   7  12  18  23  25  21  19  33  39 104  43  35  18   7   1   0   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   1   1   3   6   5   5   4   4   4   5   5   5   3   4   1   0   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   2   1   1   1   1   0   0   1   2   1   1   1   0   0   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   2   0   3   1   0   0   0   0   0   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4  11  38   3   0   0   0   0   0   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   0   0   0   0   0   0   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-6d



```
        2.HOUR AVERAGED CONCENTRATIONS
        ==============================

                                                                                        1100 - 1200 PST
                                                                                        17 FEB. 1980
SURFACE PRINT OF TRACER  UG/M**3
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MULTIPLIER= 1.00000E-02

I=        1    2    3    4    5    6    7    8    9   10   11   12   13   14   15   16   17   18   19   20   21   22   23   24   25   26   27   28   29   30
J= 16     0    0    0    0    0    0    0    0    0    0    0    1    1    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
J= 15     0    0    0    0    0    1    1    3    4    5    5    6    3    1    3    1    1    1    1    0    1    1    1    0    0    0    0    0    0    0
J= 14     0    0    0    1    1    5    7   11   12   13   13   12   10    3    6    3    3    6    6    6    3    2    2    0    0    0    0    0    0    0
J= 13     0    1    2    5    6   15   19   21   22   25   26   26   26    8   15   11   11   16   15   16   12   12    5    1    0    0    0    0    0    0
J= 12     2    4    7   12   18   26   44   43   53   52   51   55   62   14   34   27   29   50   81  287  162   35   10    9    1    0    0    0    0    0
J= 11     3    6   11   19   30   49   50   71   80   85   99   88   75   30   68   63   75  287  681  531  227  103   23   30    6    1    0    0    0    0
J= 10     3    6   11   19   28   35   52   61   74   86   96   89   79   64  112   71   78  296  777  398  136   47   17   11    1    0    0    0    0    0
J=  9     3    5    9   14   19   18   32   35   40   44   69   69   66   58   58   33   40   42  170   93   55   19    5    2    0    0    0    0    0    0
J=  8     2    4    5   13   16    8   13   19   25   15   27   33   24   23   21   26   31   36   25   24   15   17    4    0    0    0    0    0    0    0
J=  7     1    2    7   10   13    7   10   25   42   27    5   16   19   25   20   16    8   16   13   14   10   11    4    0    0    0    0    0    0    0
J=  6     2    3    3    6    8   11    9   16   18   20   19   10   27   59  113  131   36  102   18   40   19    2    0    0    0    0    0    0    0    0
J=  5     1    1    1    1    4    6    3    4   10   17   13   14   20   14   82  122  159  154  118   29   51    4    0    0    0    0    0    0    0    0
J=  4     0    0    0    0    2    0    0    1    2    9    8    5   10    6   13   26   49  125   49   20   14    3    0    0    0    0    0    0    0    0
J=  3     0    0    0    0    0    0    0    1    1    1    3    3    4    2    1    2    1    5    5    6    0    0    0    0    0    0    0    0    0    0
J=  2     0    0    0    0    0    0    0    0    0    1    0    0    1    0    0    0    0    1    0    0    0    0    0    0    0    0    0    0    0    0
J=  1     0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0
```
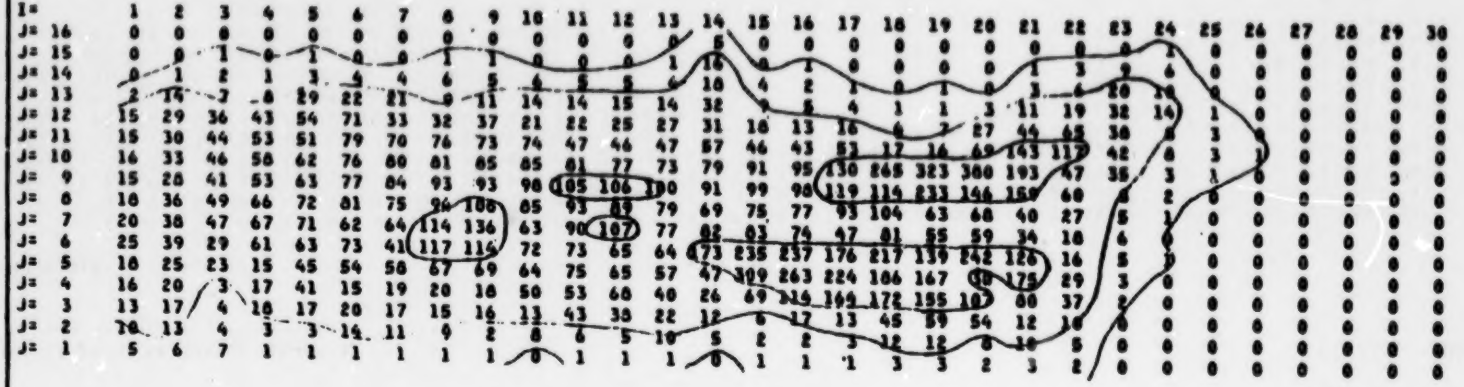

FIGURE D1-6e

2.HOUR AVERAGED CONCENTRATIONS
============================

SURFACE PRINT OF TRACER UG/M**3

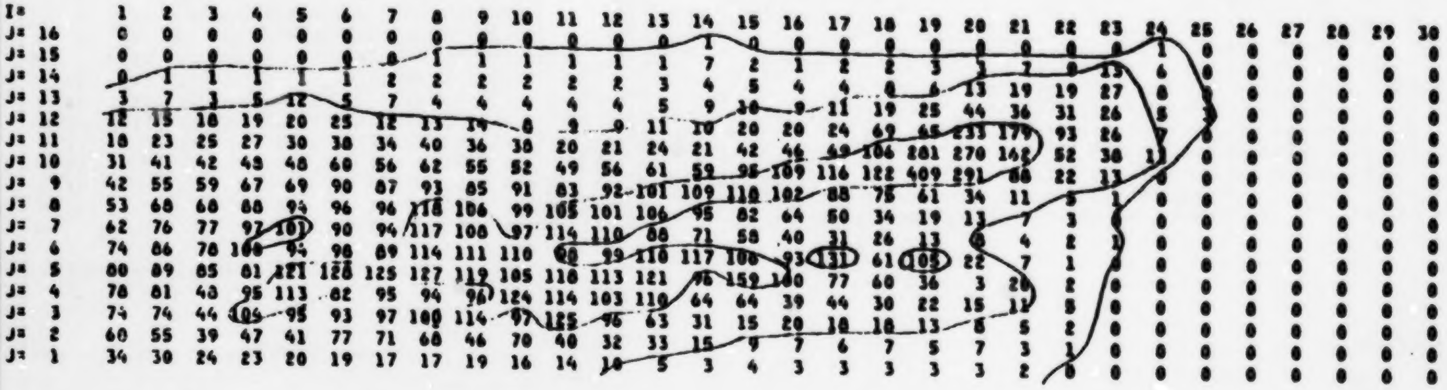
1200 - 1300 PST
17 FEB. 1980

MULTIPLIER= 1.00000E-02



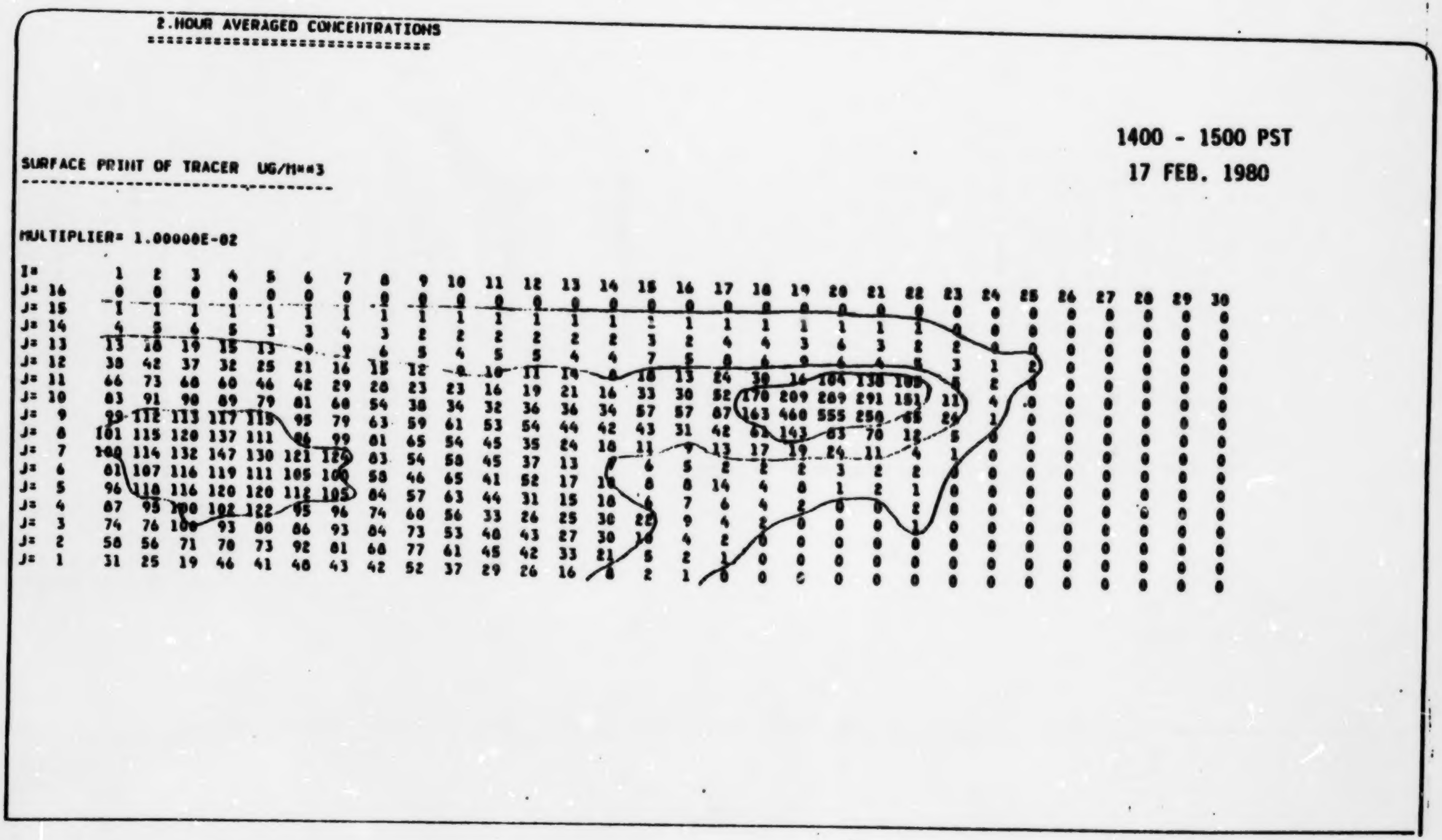
I=	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
J= 16	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
J= 15	0	0	1	0	1	0	0	1	1	0	0	0	1	16	0	1	0	0	0	0	1	3	9	6	0	0	0	0	0	0
J= 14	0	1	2	1	3	4	4	6	5	6	5	5	6	10	4	2	1	0	1	0	3	6	20	10	0	0	0	0	0	0
J= 13	2	14	7	8	29	22	21	9	11	14	14	15	14	32	9	5	4	1	1	3	11	19	32	14	1	0	0	0	0	0
J= 12	15	29	36	43	54	71	33	32	37	21	22	25	27	31	18	13	16	6	7	27	44	65	38	8	3	0	0	0	0	0
J= 11	15	30	44	53	51	79	70	76	73	74	47	46	47	57	46	43	53	17	16	69	143	117	42	8	3	1	0	0	0	0
J= 10	16	33	46	58	62	76	80	81	85	85	81	77	73	79	91	95	130	265	323	300	193	47	35	3	1	0	0	0	0	0
J= 9	15	28	41	53	63	77	84	93	93	98	105	106	100	91	99	98	119	114	233	146	169	60	8	2	0	0	0	0	0	0
J= 8	18	36	49	66	72	81	75	96	106	85	93	89	79	69	75	77	93	104	63	68	40	27	5	1	0	0	0	0	0	0
J= 7	20	38	47	67	71	62	64	114	136	63	90	107	77	82	83	74	47	81	55	59	34	18	6	0	0	0	0	0	0	0
J= 6	25	39	29	61	63	73	41	117	114	72	73	65	64	173	235	237	176	217	139	242	126	16	5	0	0	0	0	0	0	0
J= 5	18	25	23	15	45	54	58	67	69	64	75	65	57	47	309	263	224	186	167	50	175	29	3	0	0	0	0	0	0	0
J= 4	16	20	3	17	41	15	19	20	18	50	53	68	40	26	69	116	164	172	155	107	80	37	2	0	0	0	0	0	0	0
J= 3	13	17	4	18	17	20	17	15	16	13	43	38	22	12	6	17	13	45	59	54	12	18	0	0	0	0	0	0	0	0
J= 2	10	13	4	3	3	14	11	9	2	8	6	5	10	5	2	2	3	12	12	8	10	5	0	0	0	0	0	0	0	0
J= 1	5	6	7	1	1	1	1	1	1	0	1	1	1	0	1	1	1	3	3	2	3	2	0	0	0	0	0	0	0	0

FIGURE D1-6f



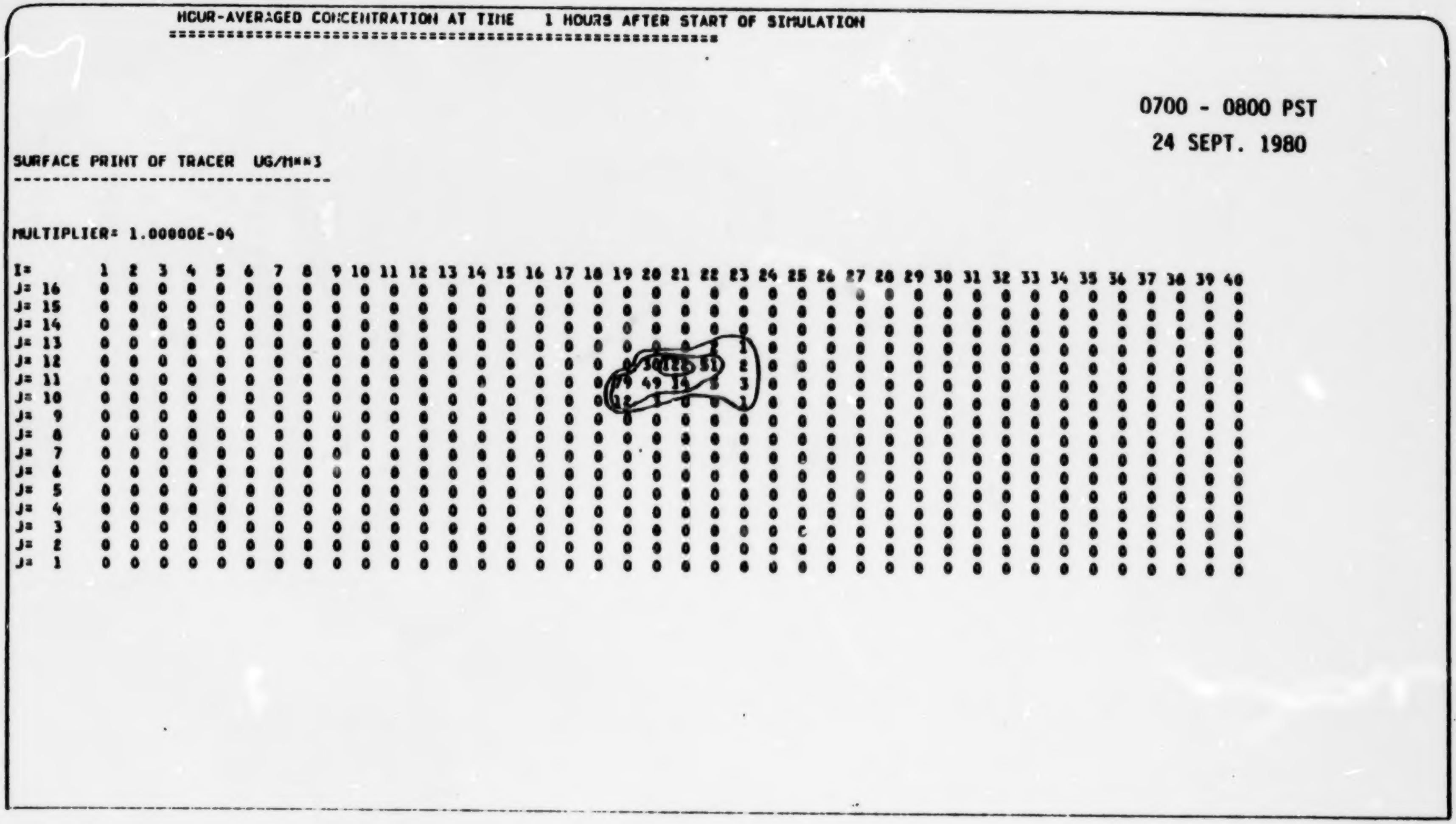
```
         2.HOUR AVERAGED CONCENTRATIONS
         ==============================

                                                                                   1300 - 1400 PST
SURFACE PRINT OF TRACER  µG/M**3                                                    17 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16      0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0
J= 15      0   0   0   0   0   0   0   1   1   1   1   1   1   7   2   1   2   2   3   3   7   8  13   6   0   0   0   0   0   0
J= 14      0   1   1   1   1   1   2   2   2   2   2   2   3   4   5   4   4   8   6  13  19  19  27   8   0   0   0   0   0   0
J= 13      3   7   3   5  12   5   7   4   4   4   4   4   5   9  10   9  11  19  25  44  36  31  26   5   3   0   0   0   0   0
J= 12     12  15  18  19  20  25  12  13  14   8   9   9  11  10  20  20  24  69  65 233 179  93  26   7   0   0   0   0   0   0
J= 11     18  23  25  27  30  38  34  40  36  38  20  21  24  21  42  46  49 106 201 270 142  52  38  11   0   0   0   0   0   0
J= 10     31  41  42  43  48  60  56  62  55  52  49  56  61  59  95 109 116 122 409 291  88  22  11   0   0   0   0   0   0   0
J=  9     42  55  59  67  69  90  87  93  85  91  83  92 101 109 110 102  88  75  61  34  11   5   1   0   0   0   0   0   0   0
J=  8     53  68  68  88  94  96  96 118 106  99 105 101 106  95  82  64  50  34  19  13   7   3   0   0   0   0   0   0   0   0
J=  7     62  76  77  97 101  90  94 117 108  97 114 110  88  71  58  40  31  26  13   8   4   2   1   0   0   0   0   0   0   0
J=  6     74  86  78 108  94  98  89 114 111 110  90  99 110 117 108  93 131  61 105  22   7   1   0   0   0   0   0   0   0   0
J=  5     80  89  85  81 121 128 125 127 119 105 118 113 121  96 159 140  77  60  36   3  20   2   0   0   0   0   0   0   0   0
J=  4     78  81  43  95 113  82  95  94  96 124 114 103 110  64  64  39  44  30  22  15  11   5   0   0   0   0   0   0   0   0
J=  3     74  74  44 106  95  93  97 100 114  97 125  96  63  31  15  20  18  18  13   8   5   2   0   0   0   0   0   0   0   0
J=  2     60  55  39  47  41  77  71  68  46  70  40  32  33  15   9   7   6   7   5   7   3   1   0   0   0   0   0   0   0   0
J=  1     34  30  24  23  20  19  17  17  19  16  14  10   5   3   4   3   3   3   3   3   2   0   0   0   0   0   0   0   0   0
```

FIGURE D1-6g



```
2.HOUR AVERAGED CONCENTRATIONS
==============================

                                                                                                   1400 - 1500 PST
SURFACE PRINT OF TRACER  UG/M**3                                                                   17 FEB. 1980
-----------------------------------

MULTIPLIER= 1.00000E-02

I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   1   0   0   0   0   0   0   0   0
J= 14     4   5   6   5   3   3   4   3   2   2   2   2   2   2   3   2   4   4   3   6   3   2   2   0   0   0   0   0   0   0
J= 13    13  18  19  15  13   8   9   6   5   4   5   5   4   4   7   5   8   6   9   6   6   5   3   1   2   0   0   0   0   0
J= 12    38  42  37  32  25  21  16  15  12   8  10  11  14   8  18  13  24  38  16 104 138 109   5   2   0   0   0   0   0   0
J= 11    66  73  68  60  46  42  29  28  23  23  16  19  21  16  33  30  52 170 209 289 291 151  11   4   0   0   0   0   0   0
J= 10    83  91  90  89  79  81  60  54  38  34  32  36  36  34  57  57  87 163 460 555 250  65  29   1   0   0   0   0   0   0
J=  9    99 112 113 117 115  95  79  63  59  61  53  54  44  42  43  31  42  62 143  83  70  12   5   0   0   0   0   0   0   0
J=  8   101 115 120 137 111  86  99  81  65  54  45  35  24  18  11   9  13  17  19  24  11   4   1   0   0   0   0   0   0   0
J=  7   100 114 132 147 130 121 129  83  54  58  45  37  13   8   6   5   2   2   2   3   2   2   0   0   0   0   0   0   0   0
J=  6    81 107 116 119 111 105 100  58  46  65  41  52  17  18   8   8  14   4   8   1   2   1   0   0   0   0   0   0   0   0
J=  5    96 118 116 120 120 112 105  84  57  63  44  31  15  18   6   7   6   4   2   0   0   2   0   0   0   0   0   0   0   0
J=  4    87  95 100 102 122  95  96  74  60  56  33  26  25  30  22   9   4   2   0   0   0   1   0   0   0   0   0   0   0   0
J=  3    74  76 100  93  80  86  93  84  73  53  40  43  27  30  18   4   2   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    58  56  71  70  73  92  81  68  77  61  45  42  33  21   5   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    31  25  19  46  41  48  43  42  52  37  29  26  16   8   2   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-7a

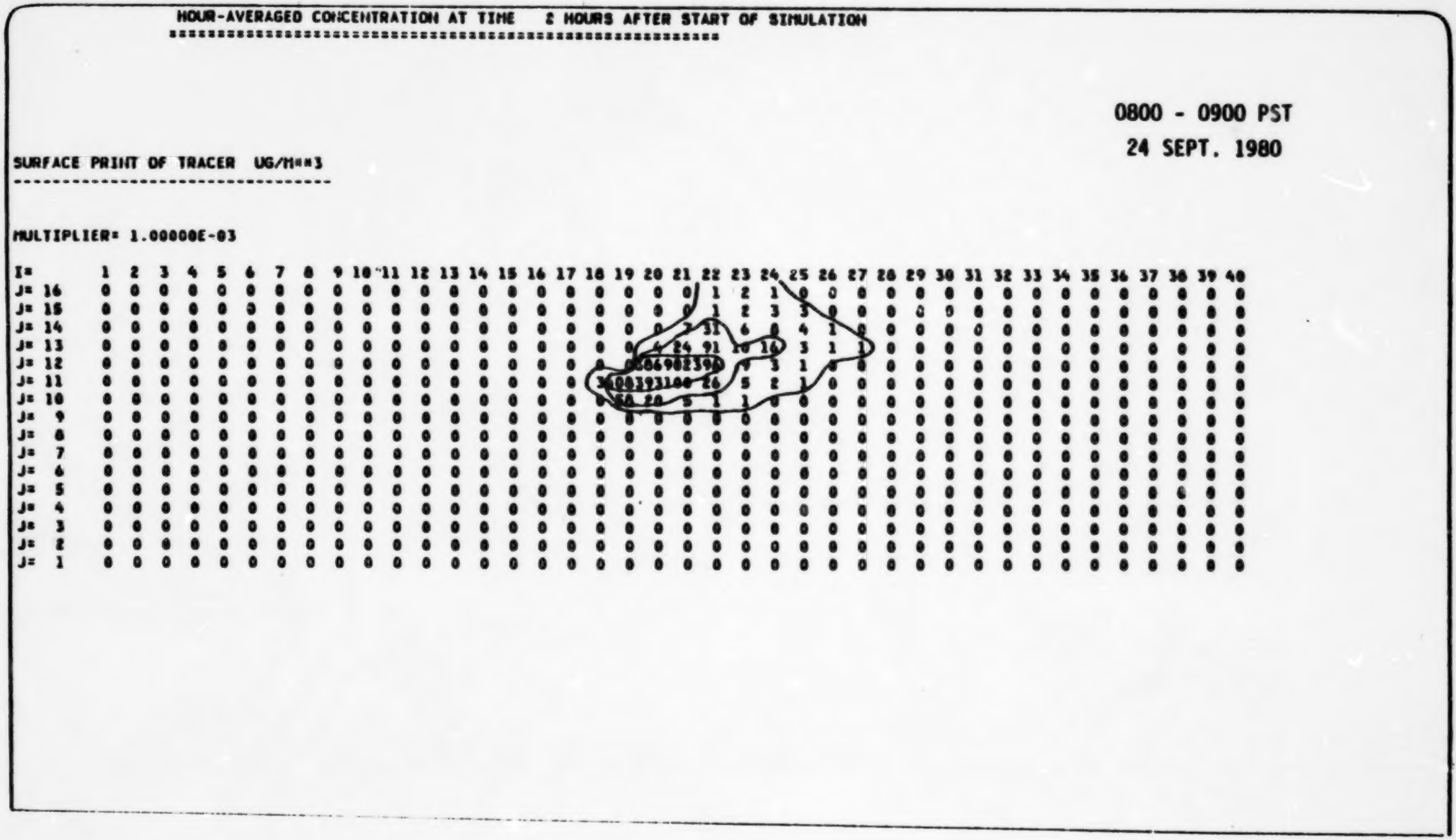


```
          HCUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
          ==================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-04

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 30125 51  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 79 49 14  8  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 12  1  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

0700 - 0800 PST

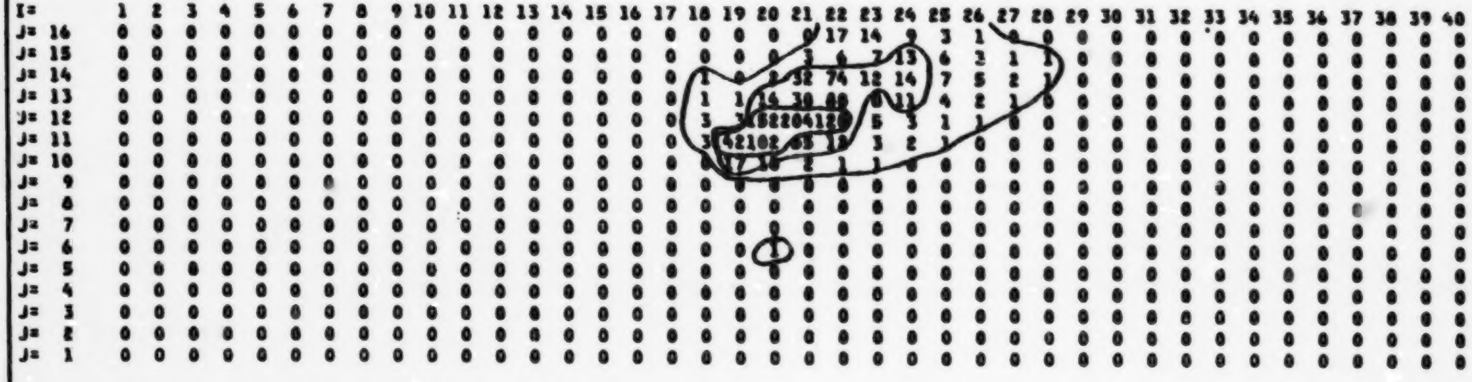
24 SEPT. 1980

FIGURE D1-7b



```
              HOUR-AVERAGED CONCENTRATION AT TIME    2 HOURS AFTER START OF SIMULATION
              ======================================================



                                                                                      0800 - 0900 PST
                                                                                      24 SEPT. 1980
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------


MULTIPLIER= 1.00000E-03

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7 31  6  8  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4 24 91 10 16  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0106690823 90  9  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3608393100 26  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 60 20  5  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D1-7c

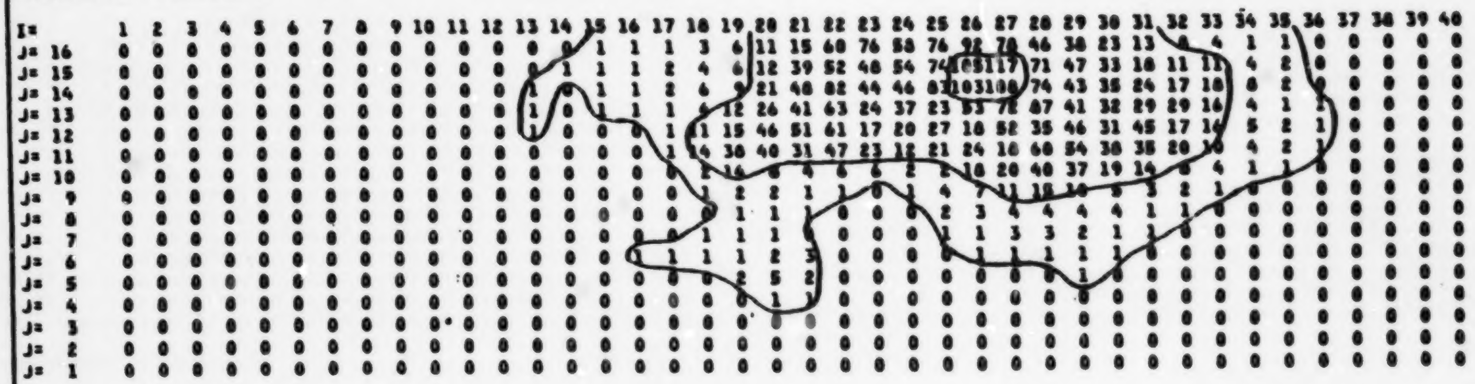


```
         HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
         =====================================================

                                                                                  0900 - 1000 PST
                                                                                  24 SEPT. 1980
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------


MULTIPLIER= 1.00000E-02

I=         1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 17 14  9  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  6  7 13  6  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 14      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  2 32 74 12 14  7  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 13      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1 14 30 48  0 11  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  3 82204128  5  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 42102 63 19  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 17 18  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D1-7d

1000 - 1100 PST
24 SEPT. 1980

```
          HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
          ==========================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02
```

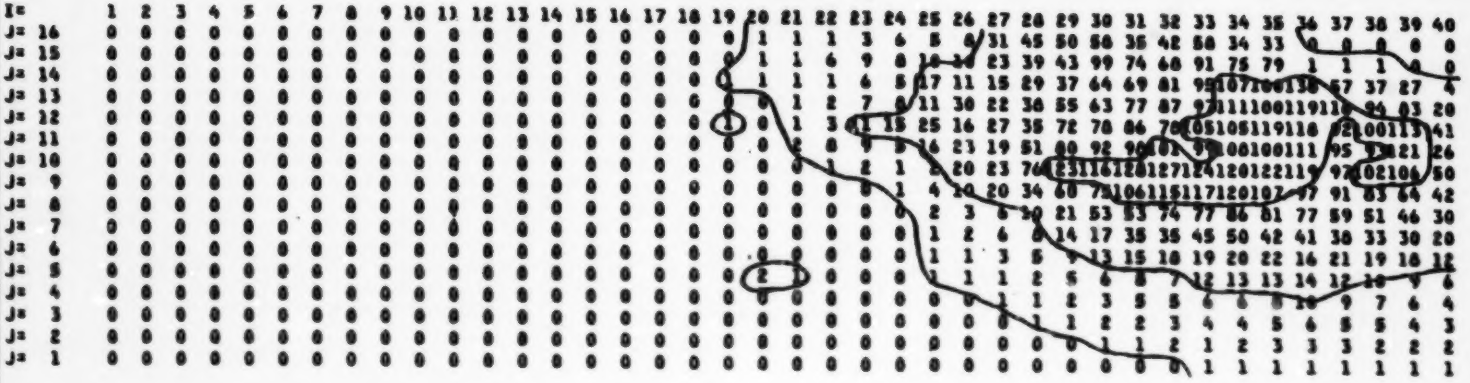


```
I=      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 16   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   3   6  11  15  60  76  58  76  92  78  46  38  23  13   8   4   1   1   0   0   0   0   0
J= 15   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   4   6  12  39  52  48  54  74 105 117  71  47  33  18  11  11   4   2   0   0   0   0   0
J= 14   0   0   0   0   0   0   0   0   0   0   0   0   1   0   1   1   2   6   9  21  48  82  44  46  83 103 108  74  43  35  24  17  18   8   2   0   0   0   0   0
J= 13   0   0   0   0   0   0   0   0   0   0   0   0   1   0   1   1   1   4  12  26  41  63  24  37  23  53  78  87  41  32  29  29  16   4   1   1   0   0   0   0
J= 12   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   1   1  15  46  51  61  17  20  27  18  52  35  46  31  45  17  16   5   2   1   0   0   0   0
J= 11   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  14  38  40  31  47  23  12  21  24  18  60  54  38  38  20  10   4   2   1   0   0   0   0
J= 10   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2  16   6   4   6   6   2   2  18  20  40  37  19  14   8   4   1   1   0   0   0   0   0
J=  9   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   2   1   1   0   1   4   7  11  18  10   5   3   2   1   0   0   0   0   0   0   0
J=  8   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   0   0   0   2   3   4   4   4   4   1   1   0   0   0   0   0   0   0   0
J=  7   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   0   0   0   0   1   1   3   3   2   1   1   0   0   0   0   0   0   0   0   0
J=  6   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   3   0   0   0   0   1   1   1   1   1   0   0   0   0   0   0   0   0   0   0
J=  5   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   5   2   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0
J=  4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-7e

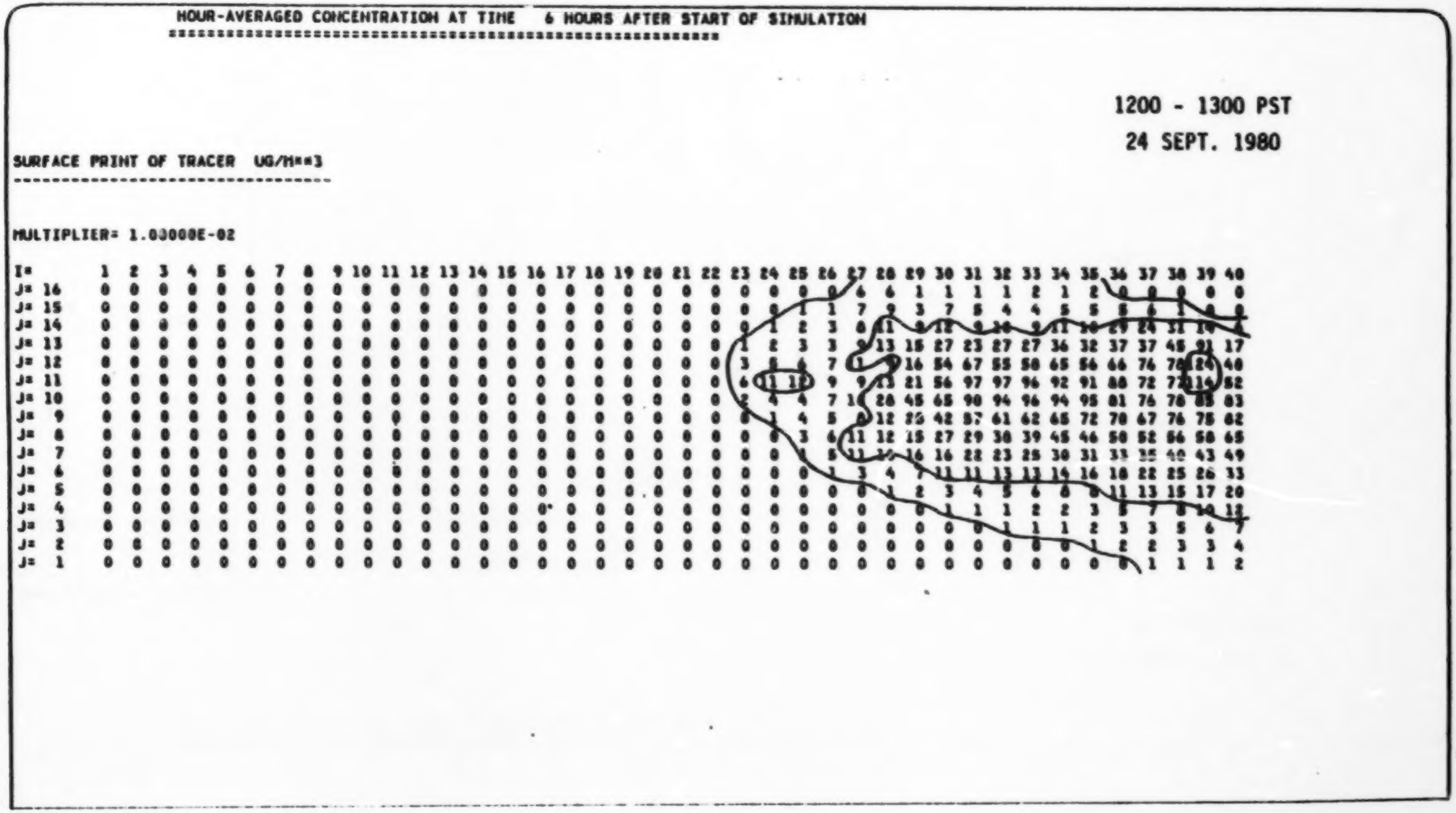
```
HOUR-AVERAGED CONCENTRATION AT TIME    5 HOURS AFTER START OF SIMULATION
======================================================================
```

1100 - 1200 PST
24 SEPT. 1980



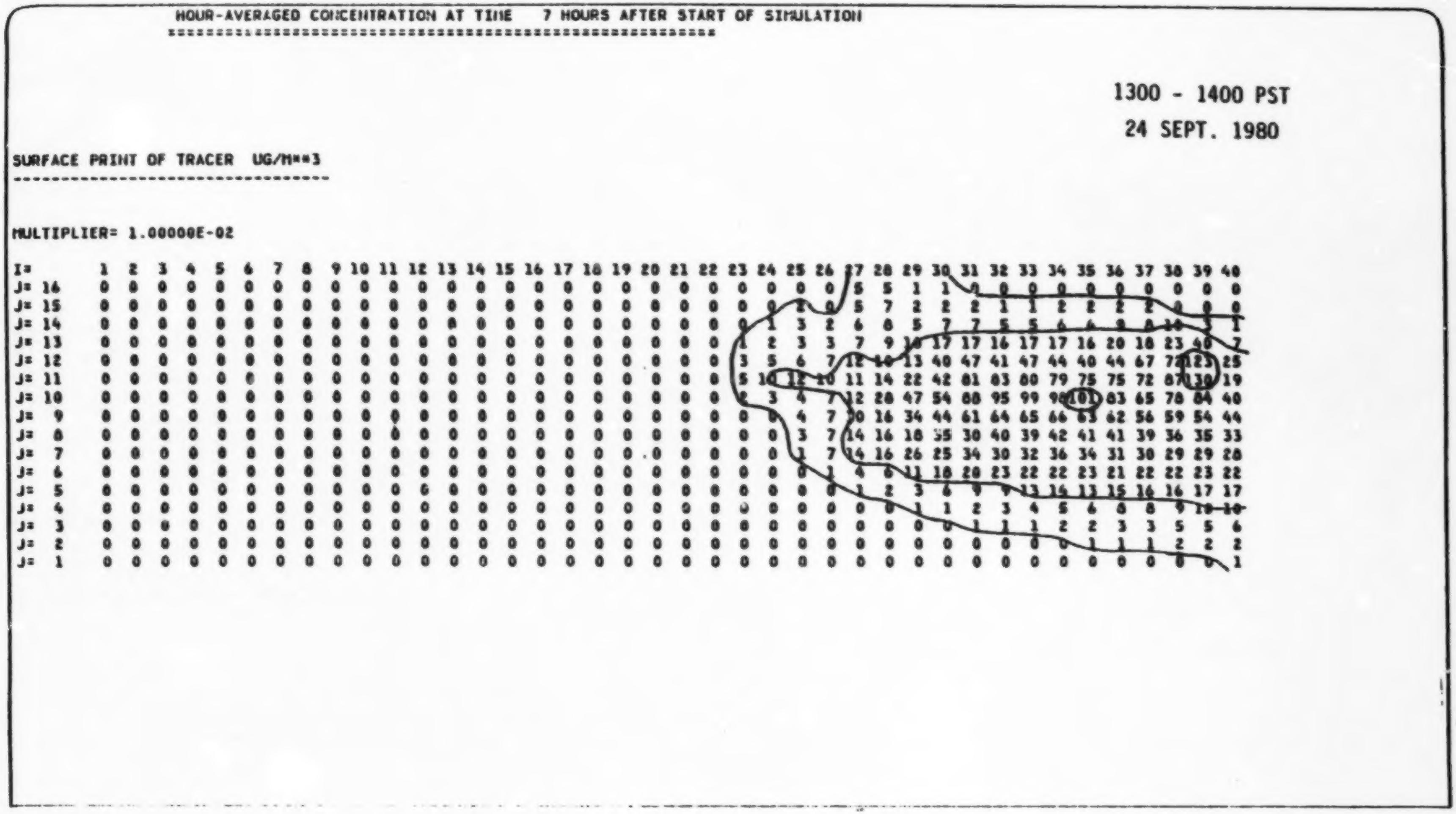
```
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  3  6  5  6 31 45 50 50 35 42 50 34 33  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  6  9  8 10 [illegible] 23 39 43 99 74 60 91 75 79  1  1  1  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  6  5 17 11 15 29 37 64 69 81 95107100130 57 37 27  4
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  7  8 11 30 22 38 55 63 77 87 97111100119[illegible] 94 83 20
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  1  3 11 15 25 16 27 35 72 70 86 70105105119118 92100113 41
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  8  9  9 16 23 19 51 80 92 90101 99100100111 95[illegible]121 26
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  1  2 20 23 76123116128127124120122119 97102106 50
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 10 20 34 60 75106115117120107 97 91 83 64 42
J=  8     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  3  6 10 21 53 53 74 77 86 81 77 59 51 46 30
J=  7     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  6  8 14 17 35 35 45 50 42 41 38 33 30 20
J=  6     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  5  9 13 15 18 19 20 22 16 21 19 18 12
J=  5     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  1  0  0  0  1  1  1  2  5  6  8  7 12 13 13 14 12 10  9  6
J=  4     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  3  5  5  6  6  8 10  9  7  6  4
J=  3     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  2  3  4  4  5  6  5  5  4  3
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  1  2  3  3  3  2  2  2
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1
```

FIGURE D1-7f



```
                 HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
                 ==========================================================

                                                                                              1200 - 1300 PST
                                                                                              24 SEPT. 1980
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-02

I=      1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 16   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   6   6   1   1   1   1   2   1   2   0   0   0   0   0
J= 15   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   7   9   3   7   5   4   4   5   5   5   6   1   0   0
J= 14   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   8  11   9  12   9  10   9  11  10  29  24  31  19   4
J= 13   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   3   9  13  15  27  23  27  27  36  32  37  37  45  91  17
J= 12   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   5   6   7  11   9  16  54  67  55  50  65  56  66  76  78 124  40
J= 11   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   6  11  12   9   9  13  21  56  97  97  96  92  91  88  72  72 114  82
J= 10   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   4   4   7  10  28  45  65  90  94  96  94  95  81  76  78  85  83
J=  9   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   5   8  12  25  42  57  61  62  65  72  70  67  76  75  82
J=  8   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   6  11  12  15  27  29  30  39  45  46  50  52  56  58  65
J=  7   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   5  11  14  16  16  22  23  25  30  31  33  35  40  43  49
J=  6   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   4   7  11  11  13  13  14  16  18  22  25  26  33
J=  5   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   4   5   6   6   8  11  13  15  17  20
J=  4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   2   3   5   7   8  10  12
J=  3   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   3   3   5   6   7
J=  2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   2   3   3   4
J=  1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2
```

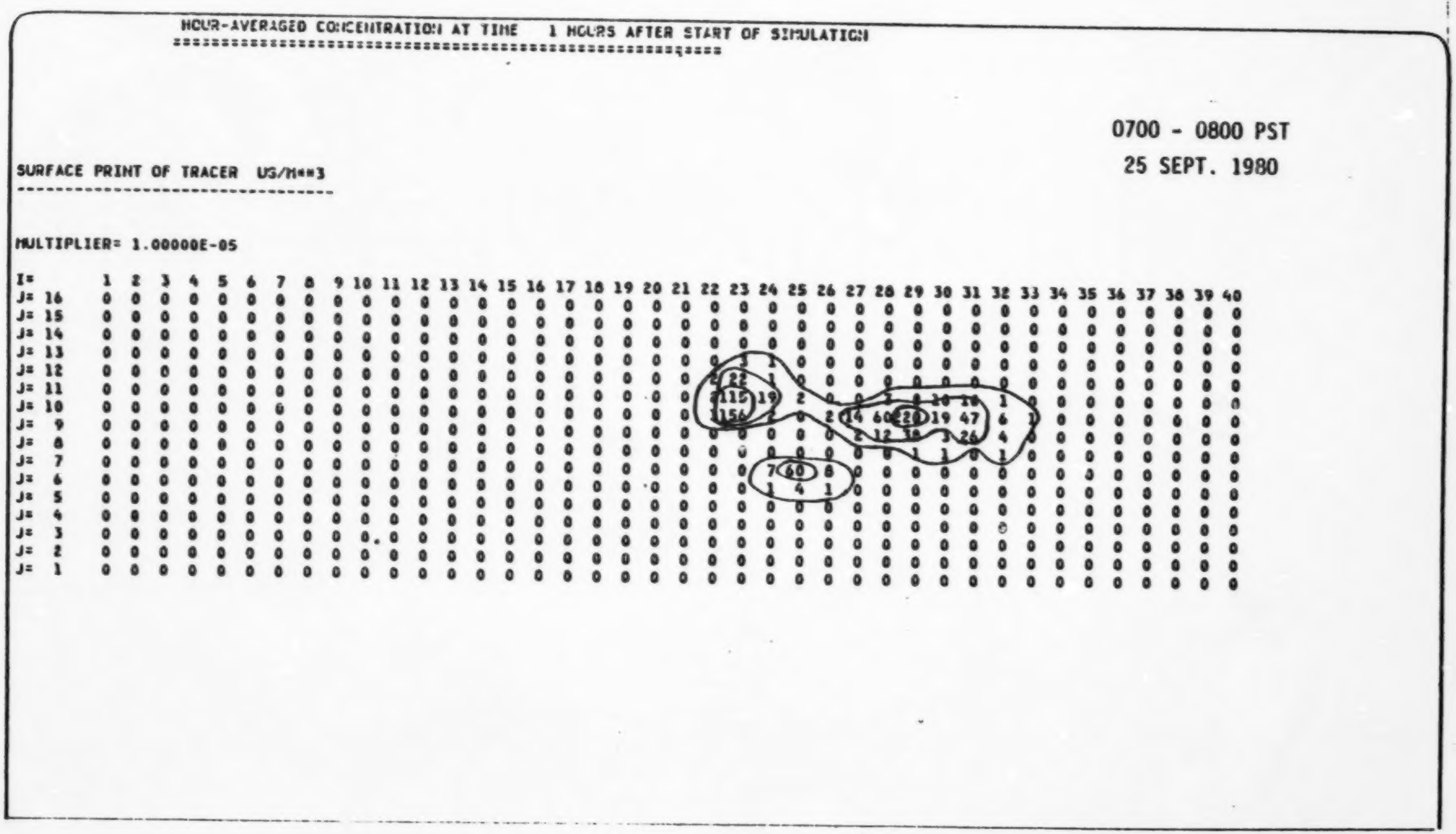
FIGURE D1-7g



```
            HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
            =================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 16      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   5   5   1   1   0   0   0   0   0   0   0   0   0   0
J= 15      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   0   5   7   2   2   2   1   1   2   2   2   2   0   0   0
J= 14      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   2   6   8   5   7   7   5   5   6   6   9   8  10   3   1
J= 13      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   3   7   9  10  17  17  16  17  17  16  20  18  23  40   7
J= 12      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   5   6   7  12  10  13  40  47  41  47  44  40  44  67  72 123  25
J= 11      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   5  10  12  10  11  14  22  42  81  83  80  79  75  75  72  87 130  19
J= 10      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2   3   4   7  12  28  47  54  88  95  99  98 101  83  65  78  84  40
J=  9      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   4   7  10  16  34  44  61  64  65  66  63  62  56  59  54  44
J=  8      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   7  14  16  18  35  30  40  39  42  41  41  39  36  35  33
J=  7      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   7  14  16  26  25  34  30  32  36  34  31  30  29  29  28
J=  6      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   6  11  18  20  23  22  22  23  21  22  22  23  22
J=  5      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   3   6   9   9  13  14  13  15  16  16  17  17
J=  4      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   2   3   4   5   6   8   8   9  10  10
J=  3      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   2   3   3   5   5   6
J=  2      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   2   2   2
J=  1      0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1
```

1300 - 1400 PST
24 SEPT. 1980

FIGURE D1-8a



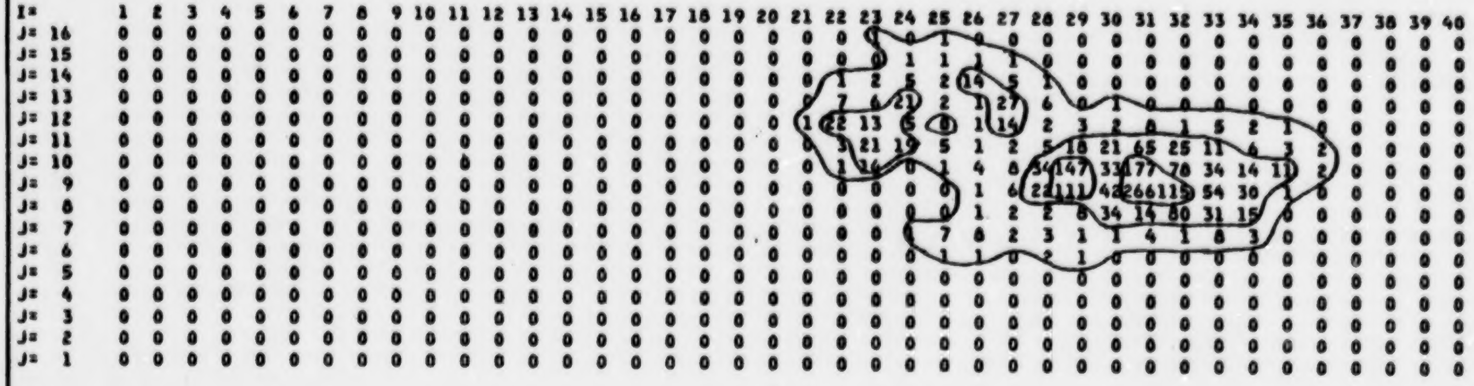
```
          HOUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
          =========================================================

                                                                                                         0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                                                                          25 SEPT. 1980
--------------------------------

MULTIPLIER= 1.00000E-05

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2  22   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2 115  19   2   0   0   1   1  10  16   1   0   0   0   0   0   0   0   0
J= 10    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1 156   2   0   2  14  60 220  19  47   6   1   0   0   0   0   0   0   0
J=  9    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   2  12  38   3  26   4   0   0   0   0   0   0   0   0
J=  8    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   1   0   0   0   0   0   0   0   0
J=  7    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   7  60   8   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-8b

```
HOUR-AVERAGED CONCENTRATION AT TIME   2 HOURS AFTER START OF SIMULATION
=====================================================
```

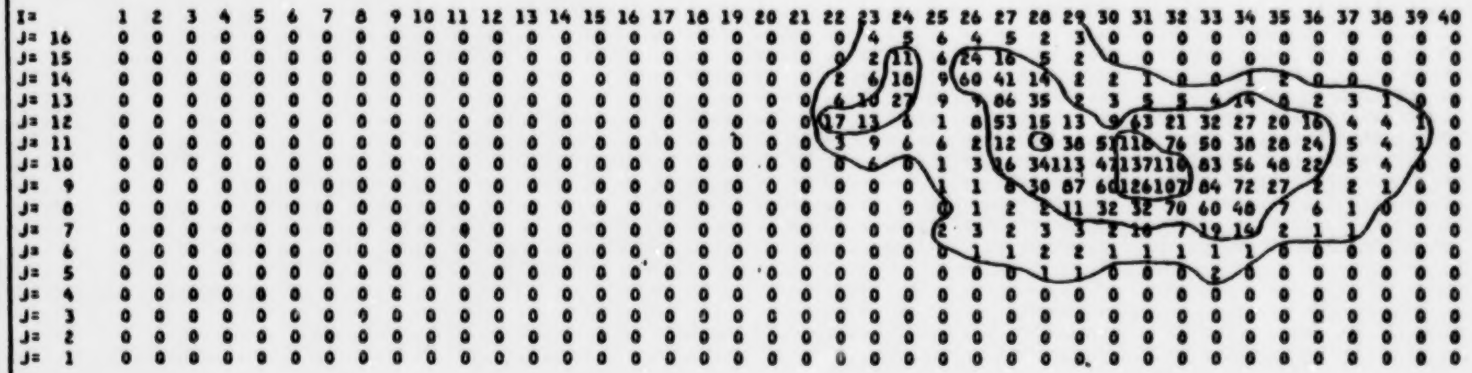
0800 - 0900 PST
25 SEPT. 1980

```
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03
```



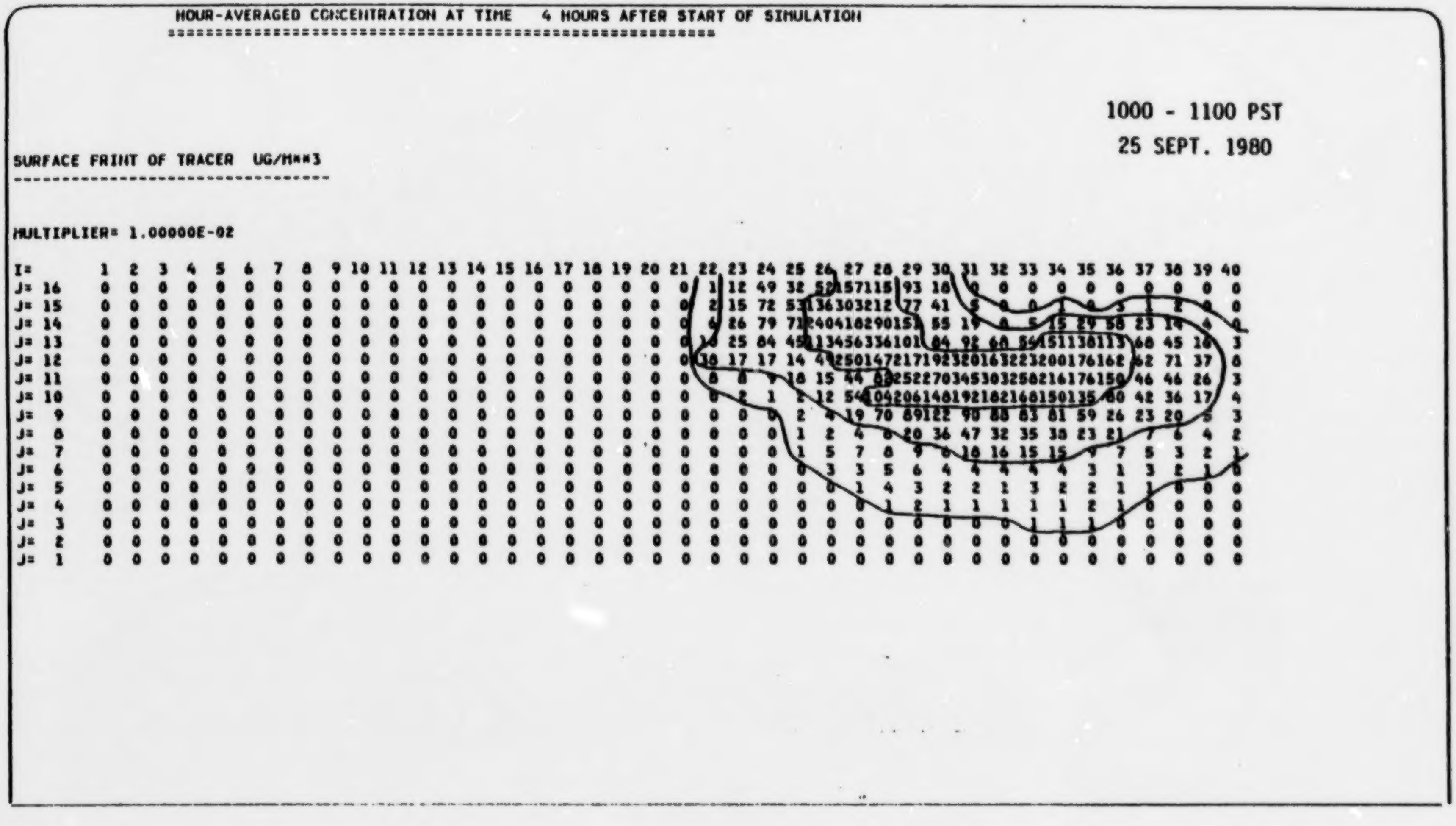
```
I=        1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 16     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   1   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   2  14   5   1   0   0   0   0   0   0   0   0   0   0   0   0
J= 13     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   7   6  21   2   1  27   6   0   1   0   0   0   0   0   0   0   0   0   0
J= 12     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  22  13   5   8   1  14   2   3   2   0   1   5   2   1   0   0   0   0   0
J= 11     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   3  21  19   5   1   2   5  18  21  65  25  11   6   3   2   0   0   0   0
J= 10     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1  26   0   1   4   8  34 147  33 177  78  34  14  11   2   0   0   0   0
J=  9     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   6  22 111  42 266 115  54  30   1   0   0   0   0   0
J=  8     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   2   8  34  14  80  31  15   0   0   0   0   0   0
J=  7     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   7   8   2   3   1   1   4   1   8   3   0   0   0   0   0   0
J=  6     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   0   2   1   0   0   0   0   0   0   0   0   0   0   0
J=  5     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1     0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

FIGURE D1-8c



```
HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
=====================================================

0000 - 1000 PST
25 SEPT. 1980

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  5  6  4  5  2  3  0  0  0  0  0  0  0  0  0  0  0
J= 15   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 11  6 24 16  5  2  0  0  0  0  0  0  0  0  0  0  0
J= 14   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  6 18  9 60 41 14  2  2  1  0  0  1  2  0  0  0  0  0
J= 13   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6 10 27  9  9 86 35  2  3  5  5  4 14  6  2  3  1  0  0
J= 12   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 17 13  6  1  8 53 15 13  9 63 21 32 27 20 16  4  4  1  0
J= 11   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  9  6  6  2 12  9 38 51116 76 50 38 28 24  5  4  1  0
J= 10   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6  0  1  3 16 34113 47137116 83 56 48 22  5  4  0  0
J=  9   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  8 30 87 60126107 84 72 27  2  2  1  0  0
J=  8   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  2 11 32 32 70 60 48  7  6  1  0  0  0
J=  7   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  3  2  3  3  2 10  7 19 14  2  1  1  0  0  0
J=  6   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  2  1  1  1  1  1  0  0  0  0  0  0
J=  5   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0  0  2  0  0  0  0  0  0  0
J=  4   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D1-8d



```
HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
=======================================================

                                                                                 1000 - 1100 PST
                                                                                 25 SEPT. 1980
SURFACE FRINT OF TRACER  UG/M**3
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MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 12 49 32 52157115 93 18  0  0  0  0  0  0  0  0  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 15 72 53136303212 77 41  5  0  0  1  0  3  1  2  0  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6 26 79 71240410290151 55 19  6  5 15 29 58 23 14  4  0
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 18 25 84 45113456336101 84 92 68 59151138113 68 45 16  3
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 38 17 17 14 49250147217192320163223200176162 62 71 37  8
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  8  8  9 18 15 44 83252270345303258216176150 46 46 26  3
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  1  2 12 54104206148192182168150135 80 42 36 17  4
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4 19 70 89122 90 88 83 81 59 26 23 20  5  3
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  8 20 36 47 32 35 38 23 21  7  6  4  2
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  7  8  9  8 18 16 15 15  9  7  5  3  2  1
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  3  5  6  4  4  4  4  4  3  1  3  2  1  0
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  3  2  2  1  3  2  2  1  1  0  0  0
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  1  1  1  1  1  2  1  0  0  0  0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0  0  0  0  0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```
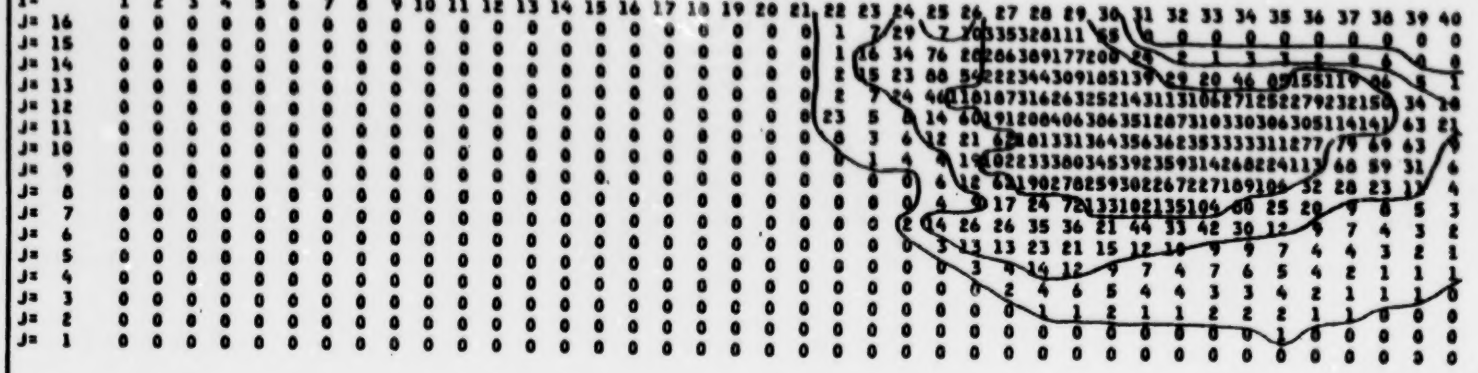

FIGURE D1-3e



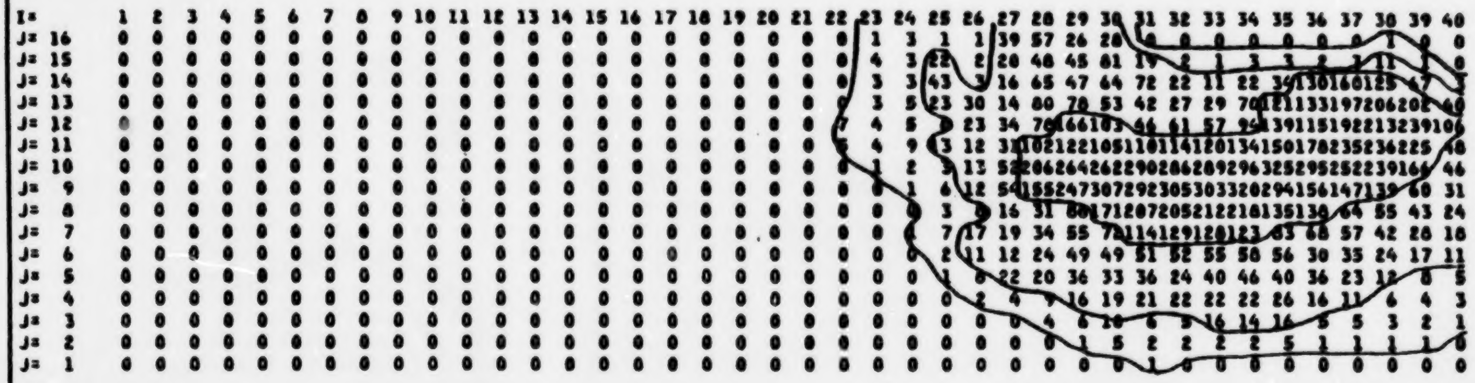
1100 - 1200 PST

25 SEPT. 1980

```
HOUR-AVERAGED CONCENTRATION AT TIME    5 HOURS AFTER START OF SIMULATION
==================================================================



SURFACE PRINT OF TRACER  UG/M**3
--------------------------------


MULTIPLIER= 1.00000E-02

I=         1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  7 29  7 20335328111 55  0  0  0  0  0  0  0  0  0  0
J= 15      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 16 34 76 20266389177200 24  2  1  3  3  8  8  6  0  0
J= 14      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 15 23 88 54222344309105139 29 20 46 85155119 96  5  1
J= 13      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  7 24 461101873162632521431113106271252279232150 34 10
J= 12      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 23  5  8 14 60191200406306351287310330306305114141 63 21
J= 11      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  8  3  6 12 21 62101331364356362353333311277 79 69 63  9
J= 10      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  4 19022333800345392359314268224113 68 59 31  6
J=  9      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6 12 62190278259302267227109106 32 28 23 11  4
J=  8      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  9 17 24 72133102135104 60 25 20  9  8  5  3
J=  7      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 14 26 26 35 36 21 44 33 42 30 12  9  7  4  3  2
J=  6      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 13 13 23 21 15 12 10  9  9  7  4  4  3  2  1
J=  5      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  4 14 12  9  7  4  7  6  5  4  2  1  1  1
J=  4      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4  6  5  4  4  3  3  4  2  1  1  1  0
J=  3      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  1  1  2  2  2  1  1  0  0  0
J=  2      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0
J=  1      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

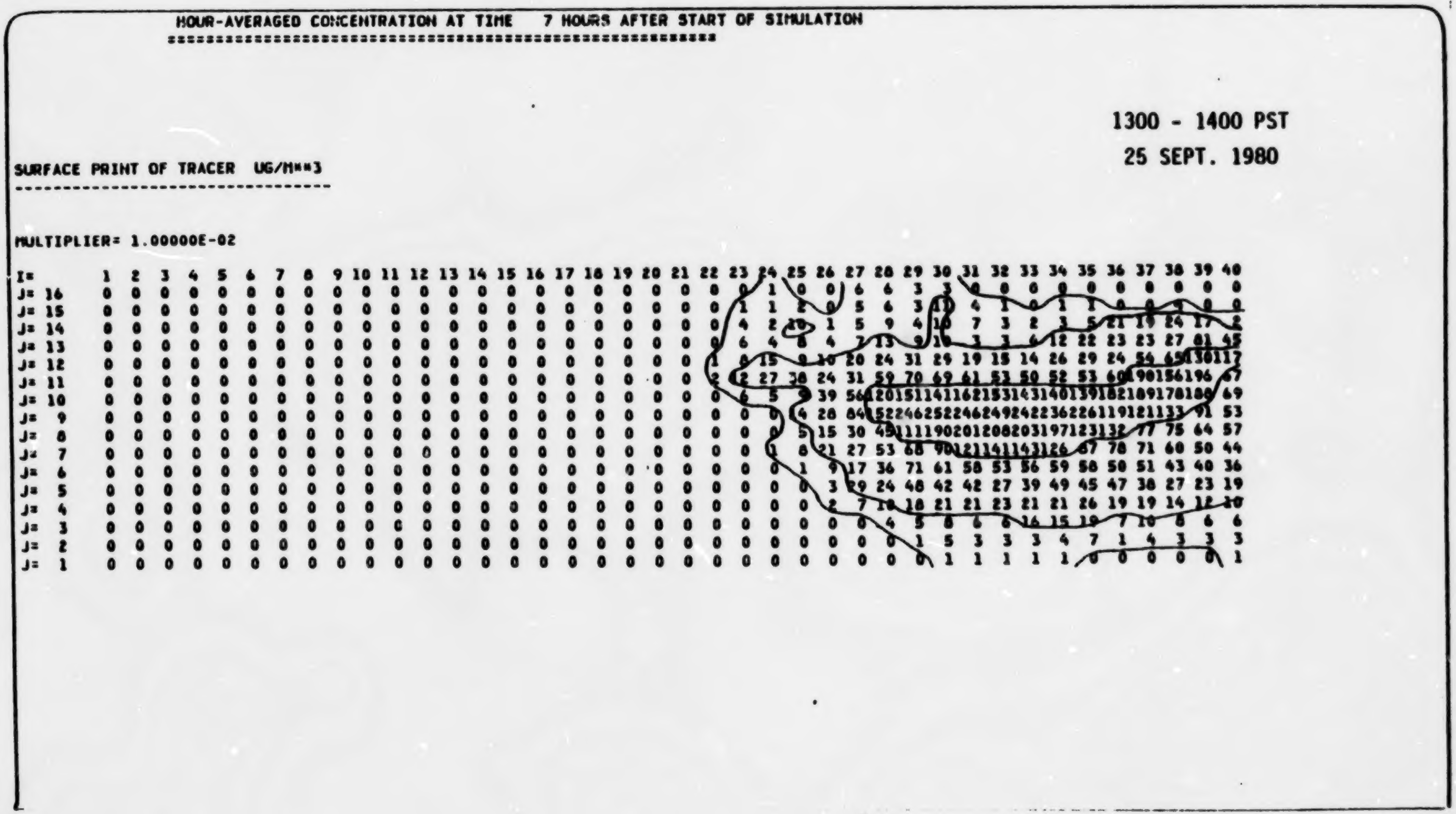
FIGURE D1-8f

1200 - 1300 PST
25 SEPT. 1980



```
HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
======================================================


SURFACE PRINT OF TRACER  UG/M**3
---------------------------------


MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  1  1 39 57 26 28  0  0  0  0  0  0  0  1  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  3 22  2 20 48 45 61 19  2  1  3  3  2  3 11  1  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  3 43  3 16 65 47 64 72 22 11 22 34130160125 47  3
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  5 23 30 14 80 78 53 42 27 29 70121133197206202 40
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7  4  5 [illegible] 23 34 70166103 46 61 57 96139115192213239106
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5  4  9 13 12 31102122105110114120134150178235236225 48
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3 13 52206264262290286289296325295252239164 46
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  6 12 54155247307292305303320294156147139 60 31
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 [illegible] 16 31 80171207205212216135136 64 55 43 24
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7 17 19 34 55 72114129128123 83 68 57 42 28 18
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 11 12 24 49 49 51 52 55 58 56 30 35 24 17 11
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  6 22 20 36 33 36 24 40 46 40 36 23 12  8  5
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4  9 16 19 21 22 22 22 26 16 11  6  4  3
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  6 10  6  5 16 14 16  5  5  3  2  1
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  2  2  2  2  5  1  1  1  1  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0
```

FIGURE D1-8g



1300 - 1400 PST
25 SEPT. 1980

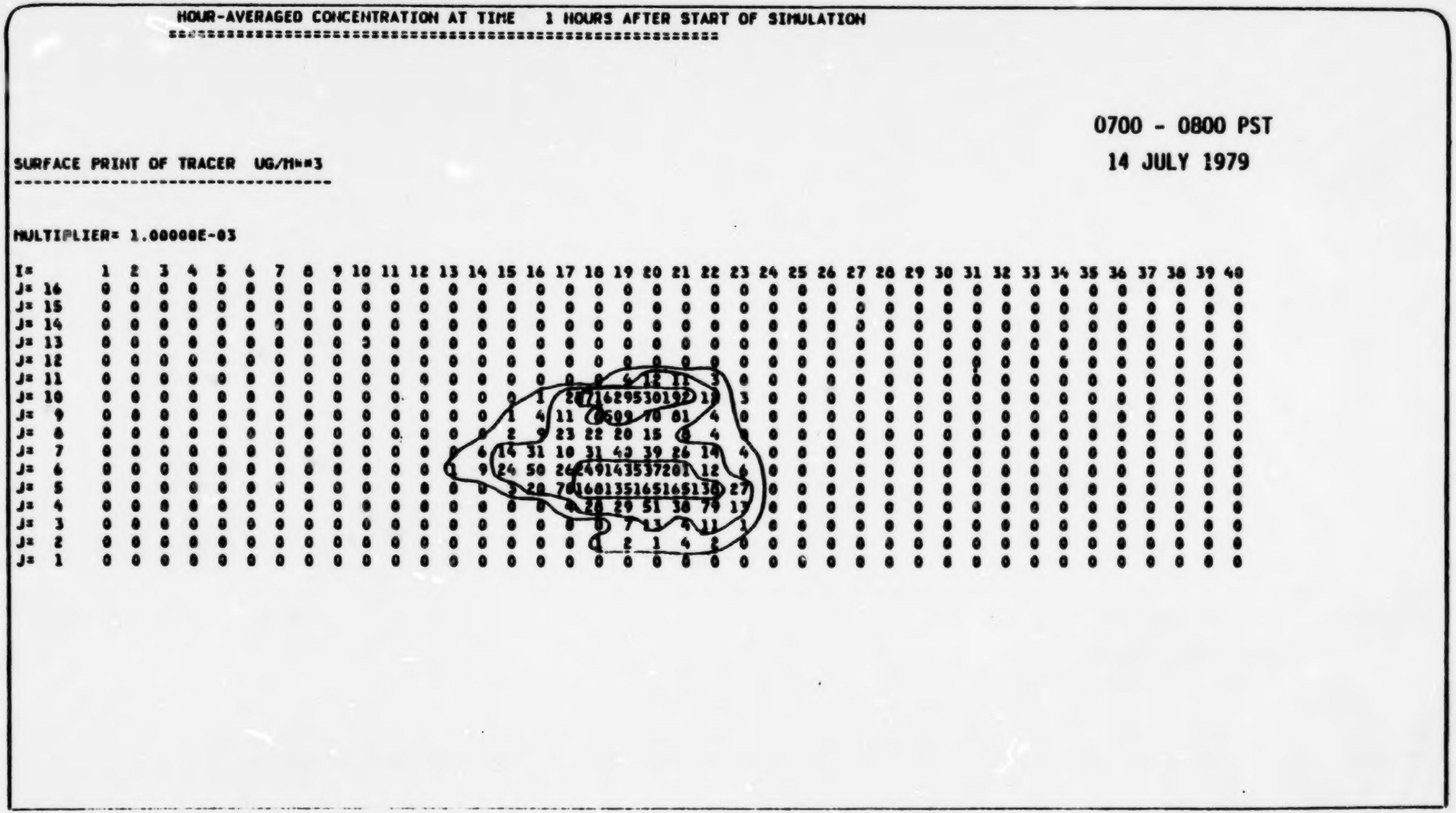
```
HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
=======================================================


SURFACE PRINT OF TRACER  UG/M**3
-----------------------------------


MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  6  6  3  3  0  0  0  0  0  0  0  0  0  0
J= 15   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  0  5  6  3 10  4  1  0  1  1  0  0  1  0  0
J= 14   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  2 10  1  5  9  4 10  7  3  2  3  5 21 19 24 17  2
J= 13   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6  4  8  4  7 13  9 10  3  3  6 12 22 23 23 27 81 45
J= 12   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  8 15  9 10 20 24 31 29 19 15 14 26 29 24 54 65130117
J= 11   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 12 27 38 24 31 59 70 69 61 53 50 52 53 60190156196 67
J= 10   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6  5  9 39 56120151141162153143140139182189178188 69
J=  9   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4 28 84152246252246249242236226119121133 91 53
J=  8   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5 15 30 45111190201208203197123132 77 75 64 57
J=  7   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  8 21 27 53 68 90121141143126 87 78 71 60 50 44
J=  6   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  9 17 36 71 61 58 53 56 59 58 50 51 43 40 36
J=  5   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 29 24 48 42 42 27 39 49 45 47 38 27 23 19
J=  4   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  7 18 18 21 21 23 21 21 26 19 19 14 12 10
J=  3   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  5  8  6  6 16 15 19  7 10  8  6  6
J=  2   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  3  3  3  4  7  1  4  3  3  3
J=  1   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  0  0  0  0  0  1
```

APPENDIX D2

COMPUTER SIMULATION OF LAND BREEZE - SEA BREEZE CONDITION

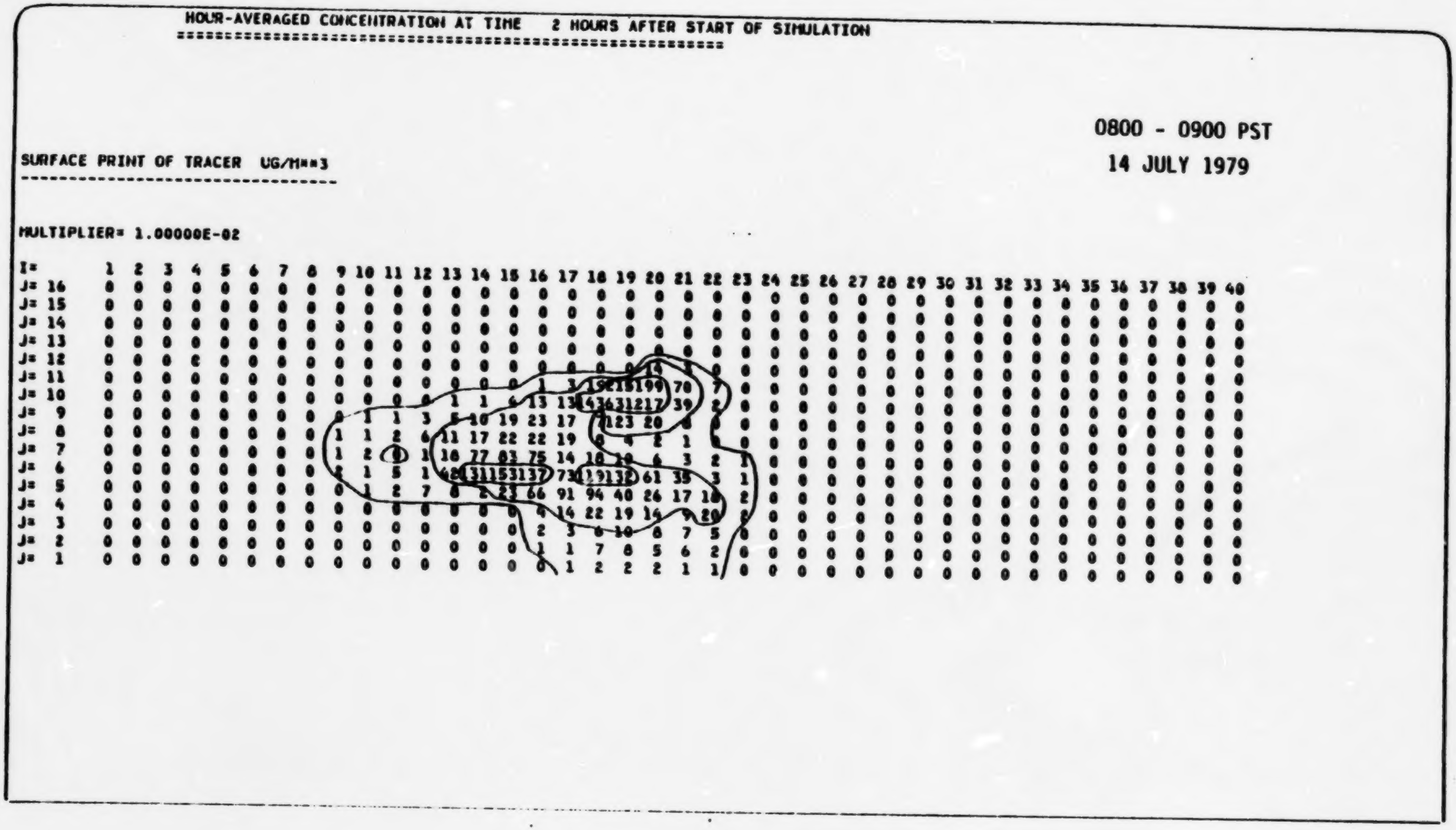
Figure D2-1	Hour Averaged Concentration of Tracer Gas for 14 July 1979 0700 to 1500 Hours
Table D2-1	Modelled Impacts on Burnaby Mountain During Sea Breeze 14 July 1979
Table D2-2	Modelled Impacts on Barber Street Subdivision During Sea Breeze 14 July 1979

FIGURE DZ-1a



```
          HOUR-AVERAGED CONCENTRATION AT TIME    1 HOURS AFTER START OF SIMULATION
          ==============================================================




                                                                                          0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                                                          14 JULY 1979
---------------------------------


MULTIPLIER= 1.00000E-03

I=     1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4 12 11  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2 71629530192[illegible]  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 11[illegible]609 70 81  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  9 23 22 20 15  6  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7  0  0  0  0  0  0  0  0  0  0  0  0  0  6 14 31 10 31 43 39 26 14  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6  0  0  0  0  0  0  0  0  0  0  0  0  0  9 24 50 26249143537201 12  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 20 70160135165165136 27  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4 28 29 51 38 79 17  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7 13  4 11  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  1  4  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

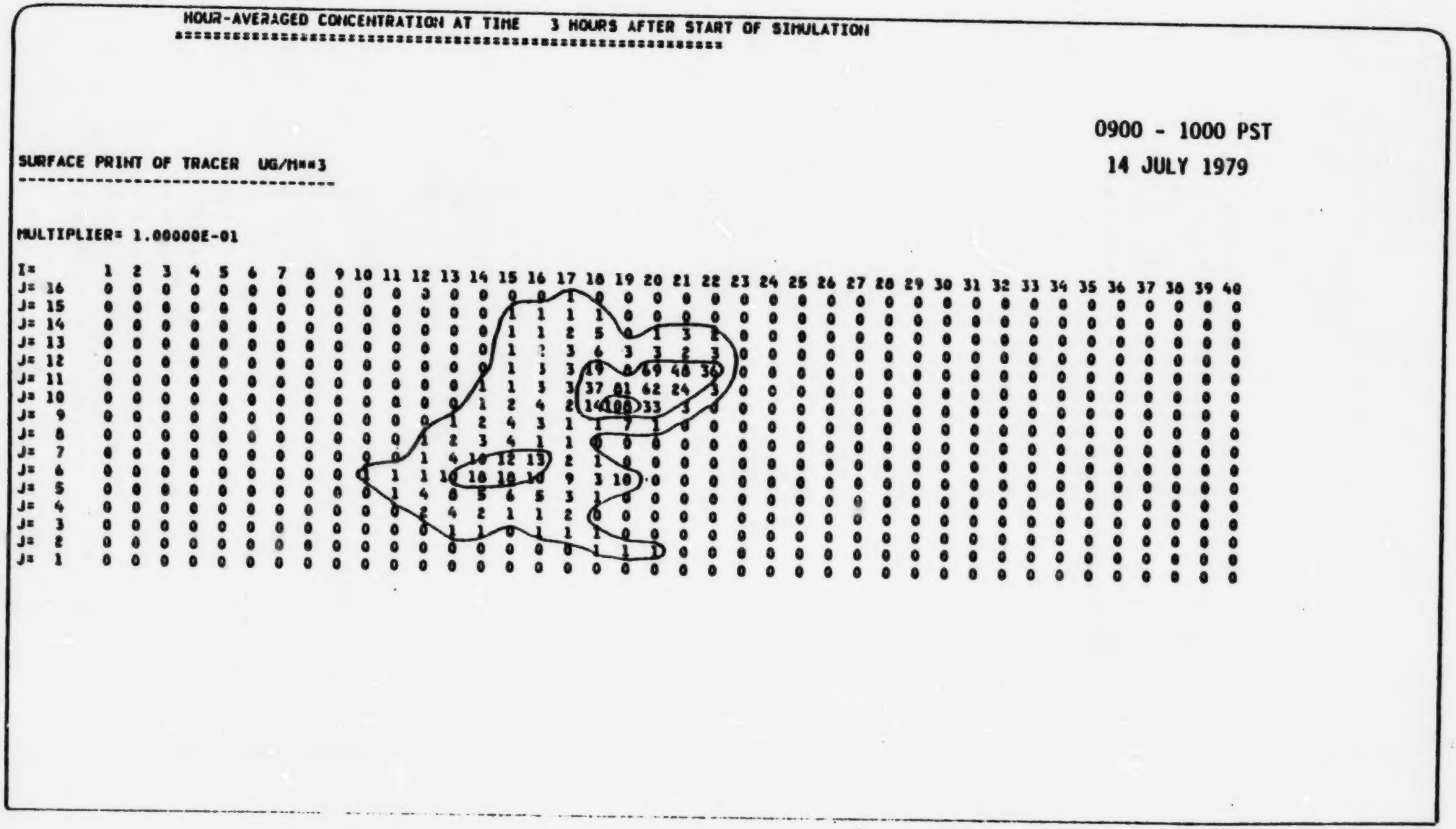
FIGURE D2-1b



0800 - 0900 PST
14 JULY 1979

```
HOUR-AVERAGED CONCENTRATION AT TIME    2 HOURS AFTER START OF SIMULATION
=================================================================



SURFACE PRINT OF TRACER  UG/M**3
--------------------------------


MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 16  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3192151199 70  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  1  1  6 13 13143631217 39  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9    0  0  0  0  0  0  0  0  0  1  1  3  5 10 19 23 17[illegible]123 20  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8    0  0  0  0  0  0  0  0  1  1  2  6 11 17 22 22 19  8  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7    0  0  0  0  0  0  0  0  1  2  8  1 18 77 83 75 14 18 10  6  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6    0  0  0  0  0  0  0  0  1  1  5  1 42311153137 73149132 61 35  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    0  0  0  0  0  0  0  0  0  1  2  7  8  2 23 66 91 94 40 26 17 18  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4 14 22 19 14  9 20  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  3  8 10  8  7  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  7  8  5  6  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  2  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

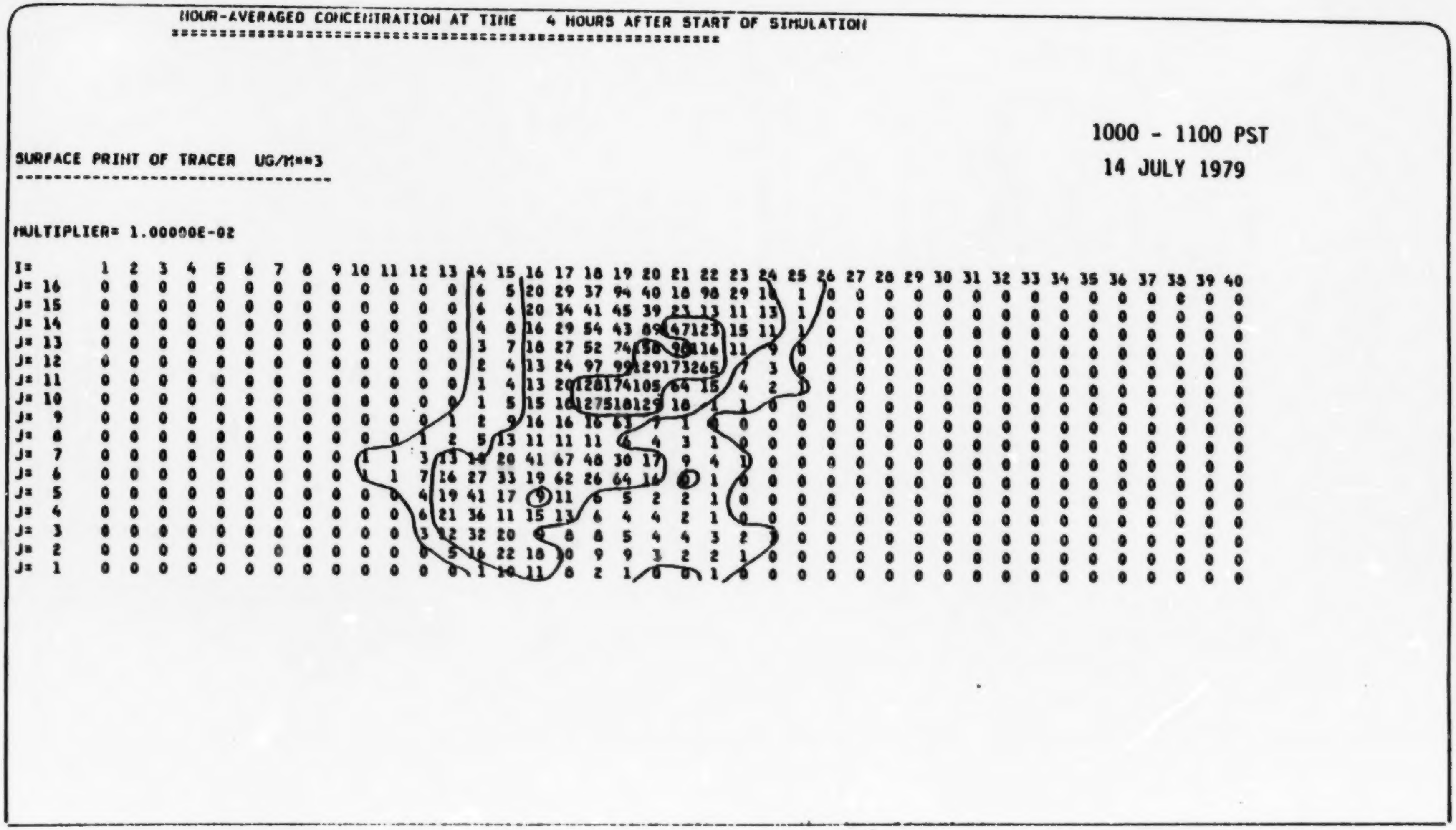
FIGURE D2-1c



```
HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
=======================================================



SURFACE PRINT OF TRACER  UG/M**3
---------------------------------

MULTIPLIER= 1.00000E-01

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  5  0  1  3  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  6  3  3  2  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  3 19  0 69 48 36  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  3 37 81 62 24  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  2 14100 33  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  3  1  1  7  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8     0  0  0  0  0  0  0  0  0  0  0  1  2  3  4  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7     0  0  0  0  0  0  0  0  0  0  0  1  4 10 12 13  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6     0  0  0  0  0  0  0  0  0  0  1  1 10 18 18 10  9  3 10  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5     0  0  0  0  0  0  0  0  0  0  1  4  8  5  6  5  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4     0  0  0  0  0  0  0  0  0  0  0  2  4  2  1  1  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3     0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

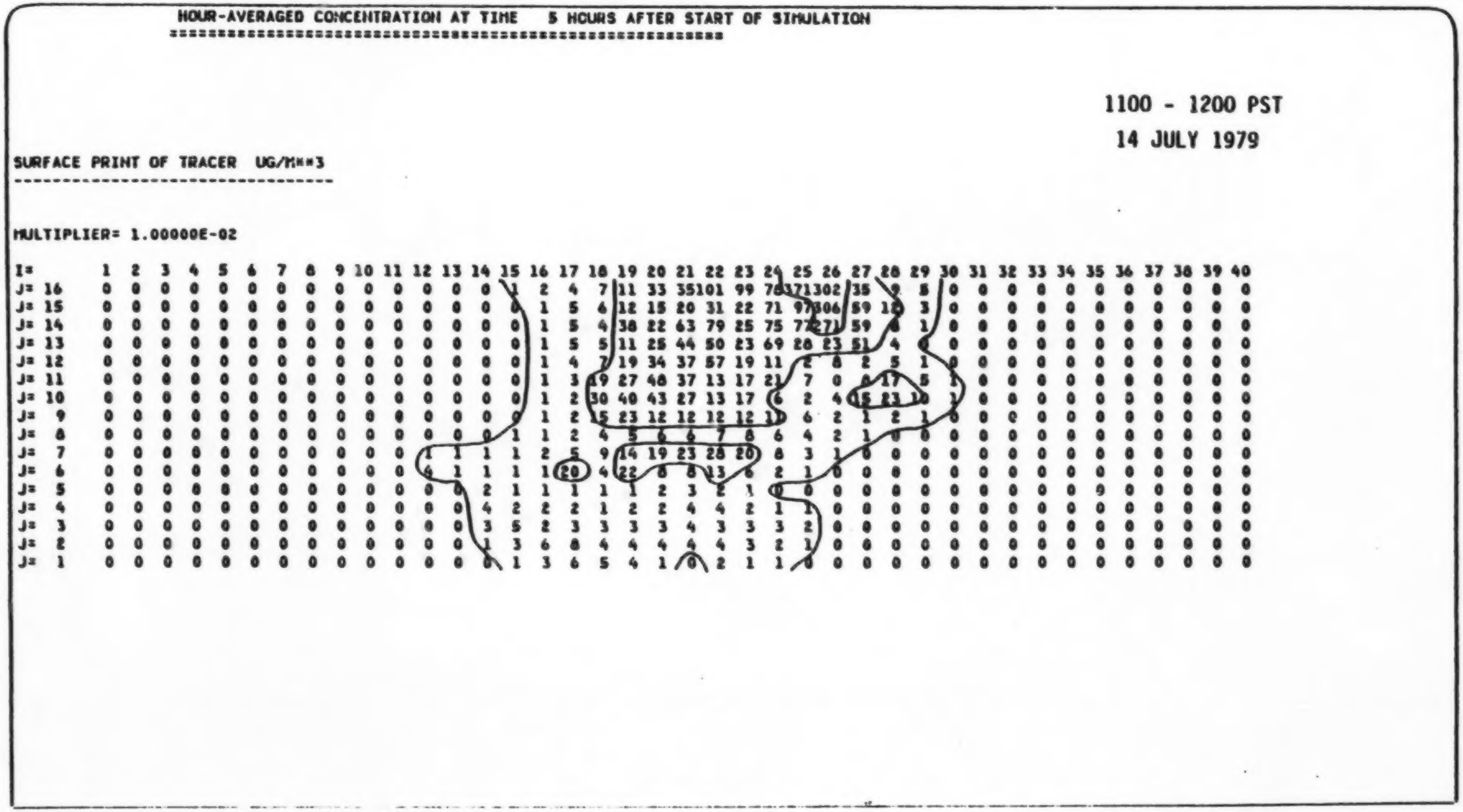
0900 - 1000 PST
14 JULY 1979

FIGURE D2-1d



```
            HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
            =========================================================

                                                                                  1000 - 1100 PST
SURFACE PRINT OF TRACER  UG/M**3                                                   14 JULY 1979
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  6  5 20 29 37 94 40 18 98 29 10  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  6  6 20 34 41 45 39 23 13 11 13  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  4  8 16 29 54 43 89147123 15 11  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  3  7 18 27 52 74150 96116 11  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  2  4 13 24 97 99129173265  7  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 13 20128174105 64 15  4  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  1  5 15 16127518129 18  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  1  2  9 16 16 16 63  7  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8     0  0  0  0  0  0  0  0  0  0  0  1  2  5 13 11 11 11  6  4  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7     0  0  0  0  0  0  0  0  0  1  1  3 13 14 20 41 67 48 30 17  9  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6     0  0  0  0  0  0  0  0  0  1  1  7 16 27 33 19 62 26 64 16  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5     0  0  0  0  0  0  0  0  0  0  0  4 19 41 17  9 11  6  5  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4     0  0  0  0  0  0  0  0  0  0  0  6 21 36 11 15 13  6  4  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3     0  0  0  0  0  0  0  0  0  0  0  3 12 32 20  9  8  8  5  4  4  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  5 16 22 18 10  9  9  3  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  1 10 11  0  2  1  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D2-1e

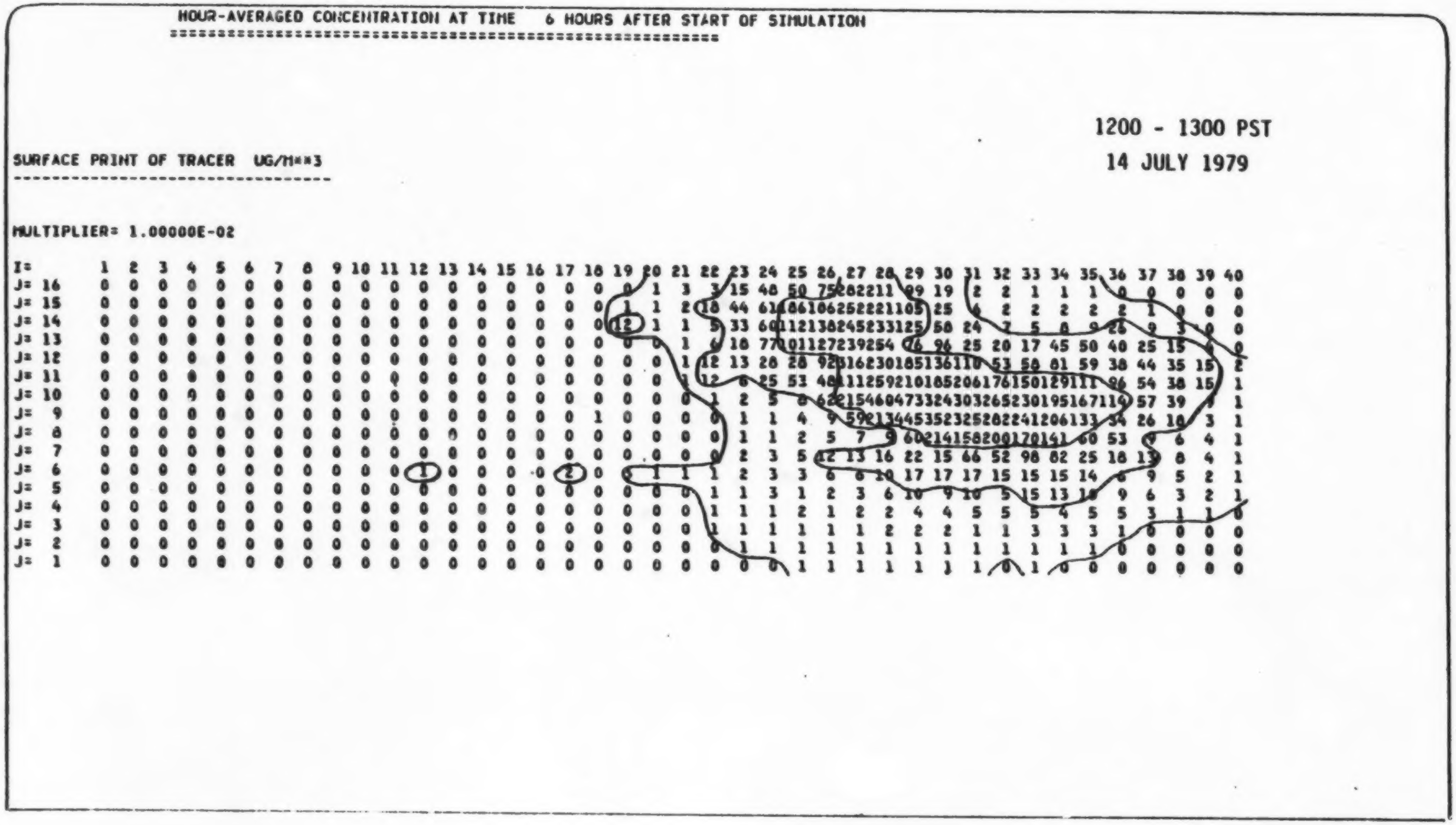


```
HOUR-AVERAGED CONCENTRATION AT TIME    5 HOURS AFTER START OF SIMULATION
=====================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------


MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16   0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  7 11 33 35101 99 78371302 35  9  5  0  0  0  0  0  0  0  0  0  0  0
J= 15   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  6 12 15 20 31 22 71 97306 59 10  3  0  0  0  0  0  0  0  0  0  0  0
J= 14   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  4 38 22 63 79 25 75 77271 59  8  1  0  0  0  0  0  0  0  0  0  0  0
J= 13   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  5 11 25 44 50 23 69 28 23 51  4  0  0  0  0  0  0  0  0  0  0  0  0
J= 12   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  7 19 34 37 57 19 11  2  8  2  5  1  0  0  0  0  0  0  0  0  0  0  0
J= 11   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3 19 27 48 37 13 17 21  7  0  0 17  5  1  0  0  0  0  0  0  0  0  0  0
J= 10   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2 30 40 43 27 13 17  6  2  4 15 23 10  1  0  0  0  0  0  0  0  0  0  0
J=  9   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2 15 23 12 12 12 12 10  6  2  1  2  1  0  0  0  0  0  0  0  0  0  0  0
J=  8   0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  4  5  6  6  7  8  6  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7   0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  2  5  9 14 19 23 28 20  8  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6   0  0  0  0  0  0  0  0  0  0  0  4  1  1  1  1 20  4 22  8  8 13  6  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5   0  0  0  0  0  0  0  0  0  0  0  0  0  2  1  1  1  1  1  2  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4   0  0  0  0  0  0  0  0  0  0  0  0  0  4  2  2  2  1  2  2  4  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3   0  0  0  0  0  0  0  0  0  0  0  0  0  3  5  2  3  3  3  3  4  3  3  3  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2   0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  6  8  4  4  4  4  4  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1   0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  6  5  4  1  0  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

1100 - 1200 PST

14 JULY 1979

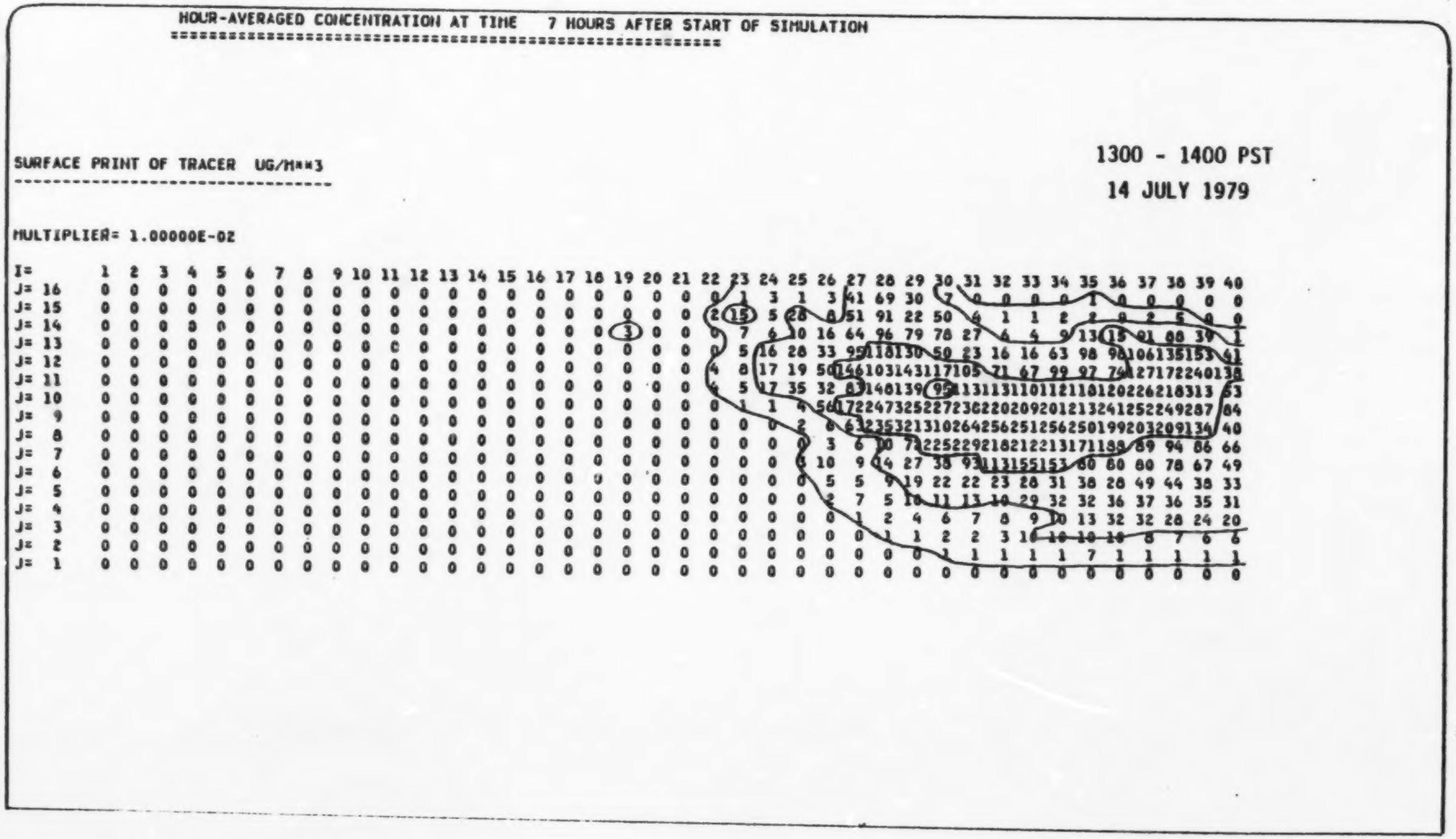
FIGURE D2-1f



1200 - 1300 PST
14 JULY 1979

```
          HOUR-AVERAGED CONCENTRATION AT TIME    6 HOURS AFTER START OF SIMULATION
          ==================================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  3 15 48 50 75282211 99 19  2  2  1  1  1  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2 18 44 61 86106252221105 25  4  2  2  2  2  2  1  0  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0 12  1  1  5 33 60112138245233125 58 24  7  5  8  9 26  9  3  0  0
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  6 18 77101127239254 76 96 25 20 17 45 50 40 25 15  6  0
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 12 13 28 28 92316230185136110 53 58 81 59 38 44 35 15  2
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 12  6 25 53 48111259210185206176150129111 96 54 38 15  1
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  5  8 62215460473324303265230195167114 57 39  9  1
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  1  1  4  9 59213445352325282241206133 34 26 18  3  1
J=  8     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  5  7  9 60214158200170141 60 53  9  6  4  1
J=  7     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  3  5 12 13 16 22 15 66 52 98 82 25 18 13  8  4  1
J=  6     0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  2  0  0  1  1  1  2  3  3  6  6 10 17 17 17 15 15 15 14  8  9  5  2  1
J=  5     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  1  2  3  6 10  9 10  5 15 13 10  9  6  3  2  1
J=  4     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  2  1  2  2  4  4  5  5  5  4  5  5  3  1  1  0
J=  3     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  2  2  2  1  1  3  3  3  1  0  0  0  0
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  1  1  1  1  1  1  0  0  0  0  0
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  1  1  0  1  0  0  0  0  0  0  0
```

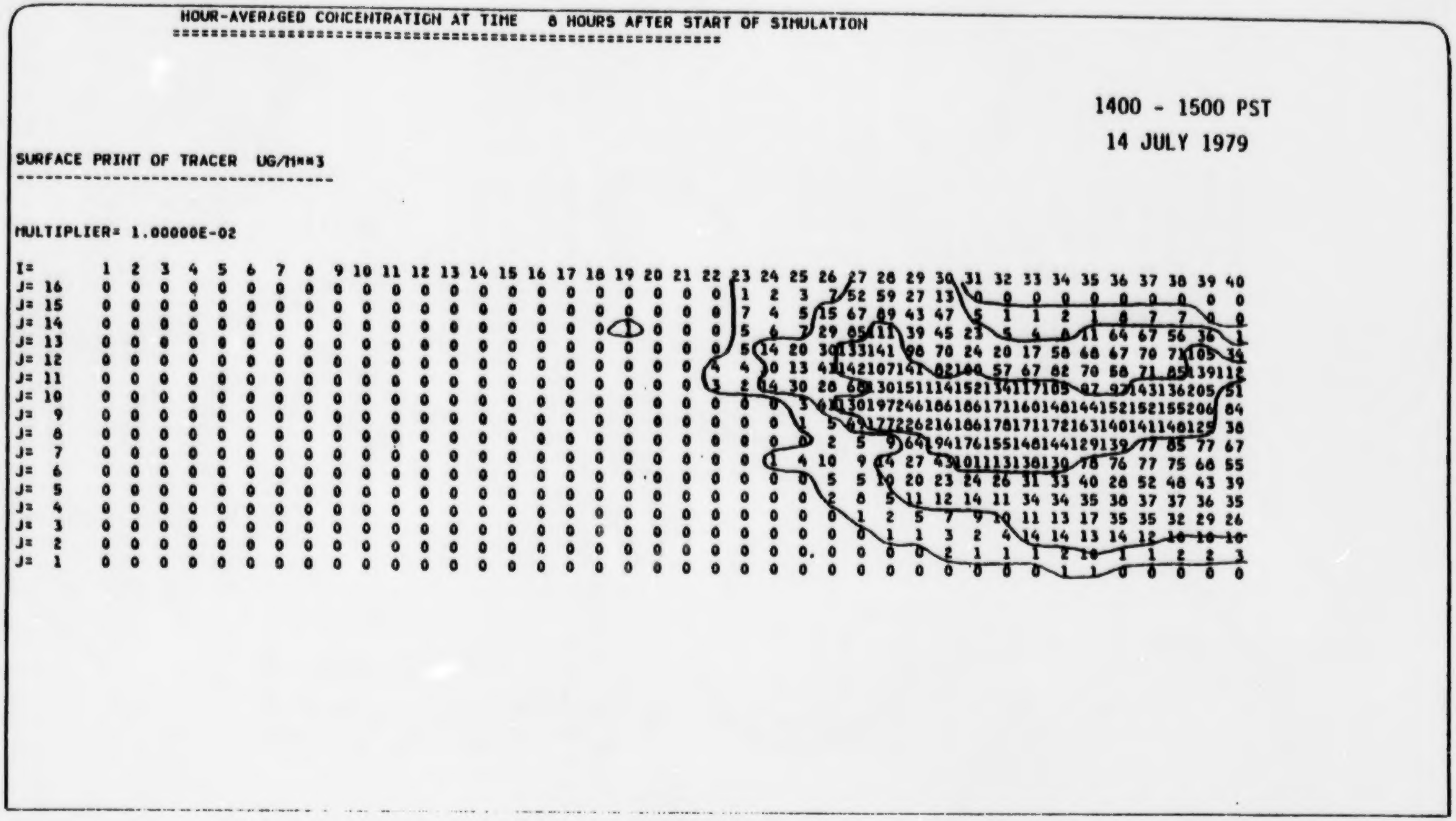
FIGURE D2-1g



```
HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
=========================================================



SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  1  3 41 69 30  7  0  0  0  0  1  0  0  0  0  0
J= 15   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 15  5 28  8 51 91 22 50  4  1  1  2  2  0  2  5  0  0
J= 14   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  0  0  0  7  6 10 16 64 96 79 78 27  6  4  9 13 15 91 88 39  1
J= 13   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5 16 28 33 95118130 50 23 16 16 63 98 96106135153 41
J= 12   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  8 17 19 50146103143117105 71 67 99 97 74127172240138
J= 11   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  5 17 35 32 83140139 95113113110112118120226218313 53
J= 10   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  4 56172247325227236220209201213241252249287 84
J=  9   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  6 63235321310264256251256250199203209134 40
J=  8   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  6 10 72225229218212213171133 89 94 86 66
J=  7   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  6 10  9 14 27 38 93113155153 80 80 80 78 67 49
J=  6   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5  5  9 19 22 22 23 28 31 38 28 49 44 38 33
J=  5   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  7  5 10 11 13 10 29 32 32 36 37 36 35 31
J=  4   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  6  7  8  9 10 13 32 32 28 24 20
J=  3   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  2  3 16 10 10 10  8  7  6  6
J=  2   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  1  7  1  1  1  1  1
J=  1   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

1300 - 1400 PST
14 JULY 1979

FIGURE D2-1h



```
HOUR-AVERAGED CONCENTRATION AT TIME    8 HOURS AFTER START OF SIMULATION
==========================================================

                                                                 1400 - 1500 PST
                                                                 14 JULY 1979
SURFACE PRINT OF TRACER  UG/M**3
---------------------------------


MULTIPLIER= 1.00000E-02

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  7 52 59 27 13  0  0  0  0  0  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7  4  5 15 67 89 43 47  5  1  1  2  1  8  7  7  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  5  6  7 29 85111 39 45 23  5  4  8 11 64 67 56 36  1
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5 14 20 30133141 98 70 24 20 17 58 68 67 70 71105 34
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  4 10 13 41142107141 82100 57 67 82 70 58 71 85139112
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  2 14 30 28 68130151114152134117105 97 97143136205 51
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 61130197246186186171160148144152152155206 84
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5 49177226216186178171172163140141148125 38
J=  8     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  5  9 64194176155148144129139 77 85 77 67
J=  7     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 10  9 14 27 43101113138130 78 76 77 75 68 55
J=  6     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5  5 10 20 23 24 26 31 33 40 28 52 48 43 39
J=  5     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  8  5 11 12 14 11 34 34 35 38 37 37 36 35
J=  4     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  5  7  9 10 11 13 17 35 35 32 29 26
J=  3     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  2  4 14 14 13 14 12 10 10 10
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  1  1  1  2 10  1  1  2  2  3
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  0  0  0  0  0
```

TABLE D2-1

MODELLED IMPACTS ON BURNABY MOUNTAIN DURING SEA BREEZE 14 JULY 1979

Hour (PST)	Maximum SF_6 in 9 Cells (Centred on Cell I20 J5) ($\mu g/m^3$)	Projected NO_x*[1] (Normal Maximum Load 600 MW) ($\mu g/m^3$)
0700-0800	0.54	35
0800-0900	1.32	86
0900-1000	1.00	65
1000-1100	0.64	42
1100-1200	0.22	14
1200-1300	0.03	2
1300-1400	0	0
1400-1500	0	0

---

*[1] Assumed NO_x/SF_6 emission ratio of 65.

TABLE D2-2

MODELLED IMPACTS ON BARBER STREET SUBDIVISION DURING SEA BREEZE 14 JULY 1979

Hour (PST)	Maximum SF_6 in 9 Cells (Centred on Cell I28 J10) (μg/m³)	Projected NO_x *[1] (Normal Maximum Load 600 MW) (μg/m³)
0700-0800	0	0
0800-0900	0	0
0900-1000	0	0
1000-1100	0	0
1100-1200	0.23	15
1200-1300	4.73	310
1300-1400	3.25	210
1400-1500	2.46	160

---

*[1] Assumed NO_x/SF_6 ratio of 65.

APPENDIX D3

COMPUTER SIMULATION OF IMPACTS OUTSIDE OF BURRARD INLET STUDY AREA

Figure D3-1 Topographic Outline of the Burrard Inlet IMPACT Grid Showing the Locations of the GVRD Continuous Air Quality Monitoring Stations

Figure D3-2 Hour Average SF_6 Concentrations - 15 February 1980

Table D3-1 Maximum Modelled Hourly Impacts - 15 February 1980

D3.1 INTRODUCTION

Normally, the wind flow in Burrard Inlet is either easterly or westerly, such that emissions from BTGP are carried toward the outer harbour or eastward toward the head of the inlet. Accordingly, the grid for the numerical model IMPACT was selected as in Fig. 2.2.

On 15 February 1980, the second day of the "arctic air outbreak situation", winds persisted from the north and northeasterly directions through the entire day such that BTGP emissions were carried across the grid rather than longitudinally. The question was asked, "Were there significant impacts outside the gridded area on that date?".

D3.2 METHODOLOGY

The grid was expanded to almost double the size in the north-south direction, i.e. 40 cells by 30 cells (20 km by 15 km) as shown in Fig. D3-1. The model IMPACT was then run with the same input data for 15 February 1980, using the new grid coordinates. There were no additional meteorological data available for the added grid area, however, Vancouver International Airport surface wind data was used in the southwest corner of the grid in order to give better meteorological coverage.

D3.3 DISCUSSIONS

Fig. D3-2 is the grid display of the hour averaged surface tracer concentrations for each hour of the study, using the expanded grid. Impacts did occur in the expanded portion of the grid, showing that emissions from BTGP can be carried out of Burrard Inlet to other areas of the Lower Mainland on certain occasions. Four of the nine hourly maximums are south of the original grid as shown in Table D3-1.

Figure D3-1

TOPOGRAPHIC OUTLINE OF THE BURRARD INLET IMPACT GRID

SHOWING THE LOCATIONS OF THE GVRD CONTINUOUS AIR

QUALITY MONITORING STATIONS

LEGEND:

T4	Kensington Park
T4A	Burnaby Mountain (BCHPA)
T5	Confederation Park
T6	Beach Works Yard
T7	Anmore School
T9	Rocky Point Park
T10	Coquitlam Works Yard

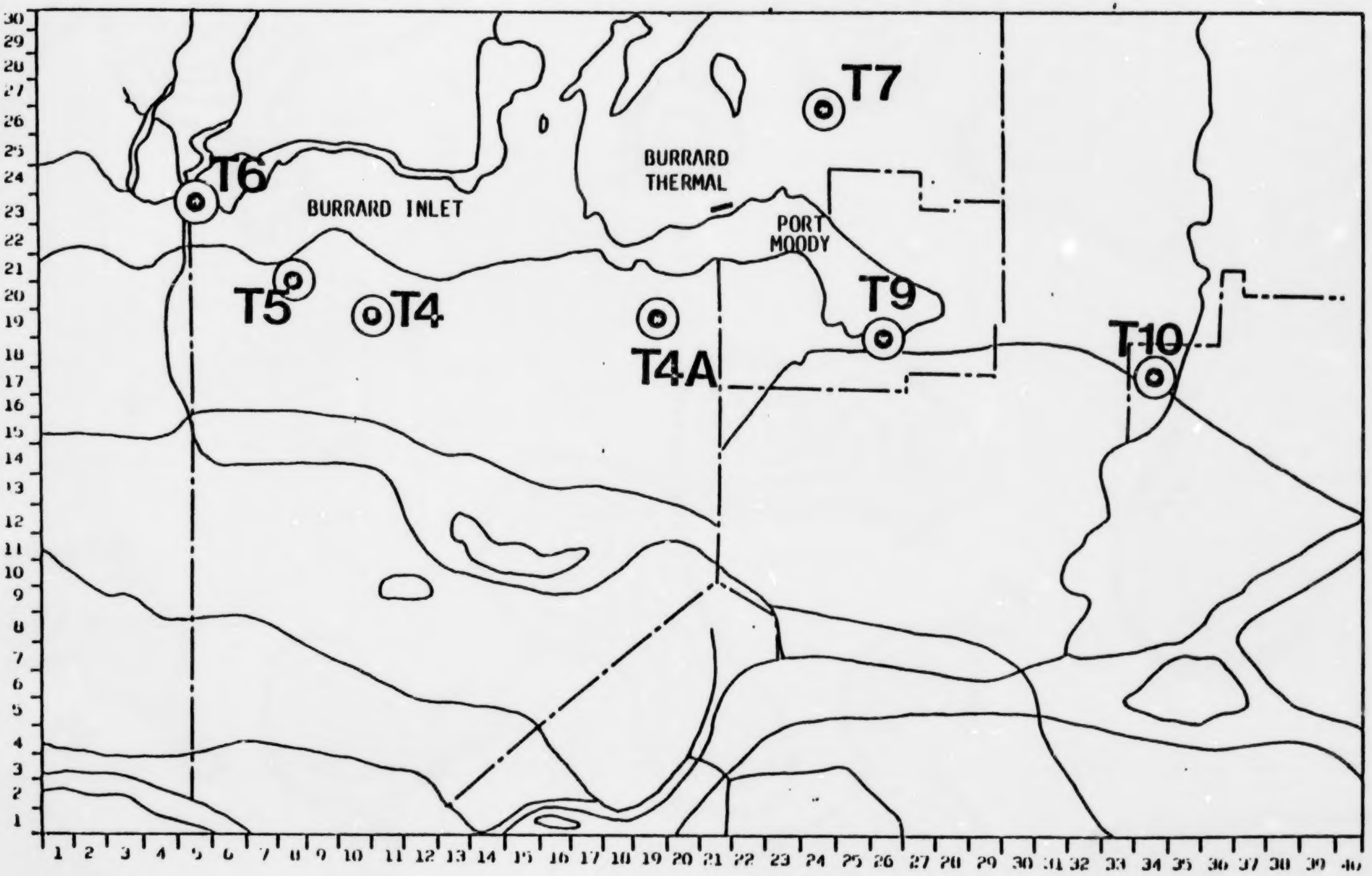
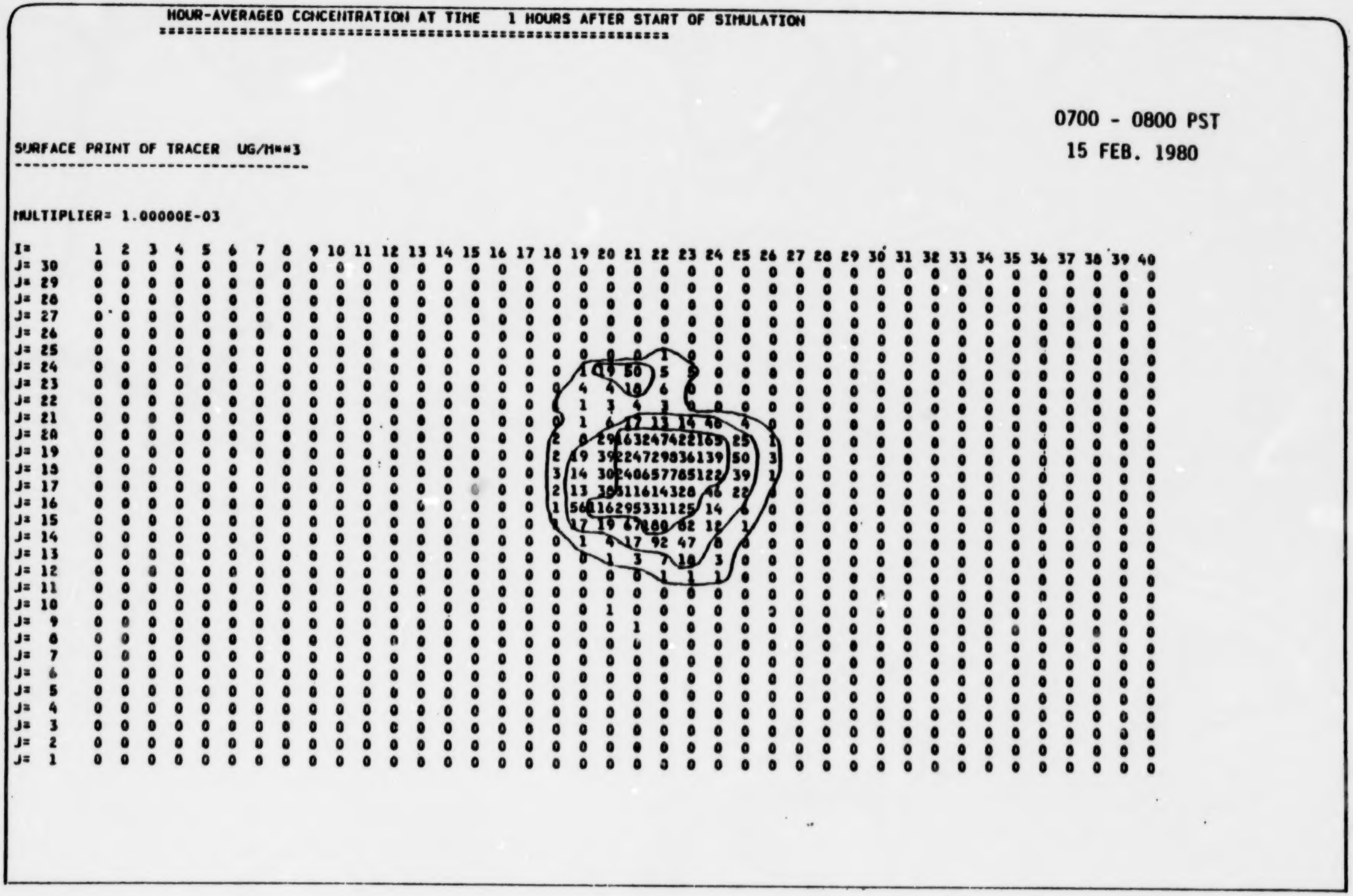
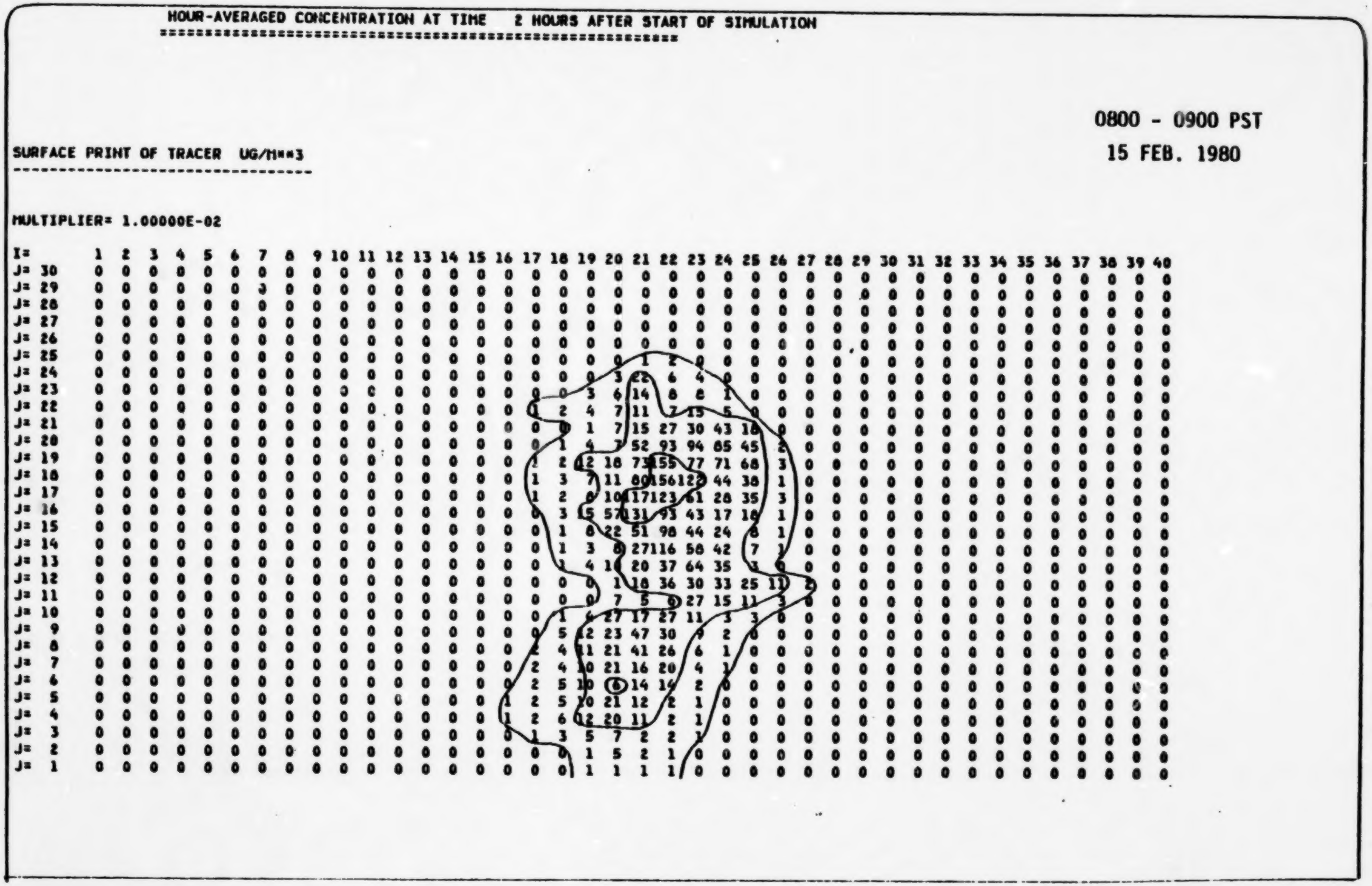

T6
BURRARD INLET
BURRARD THERMAL
T7
PORT MOODY
T5
T4
T4A
T9
T10
30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

FIGURE D3-2a



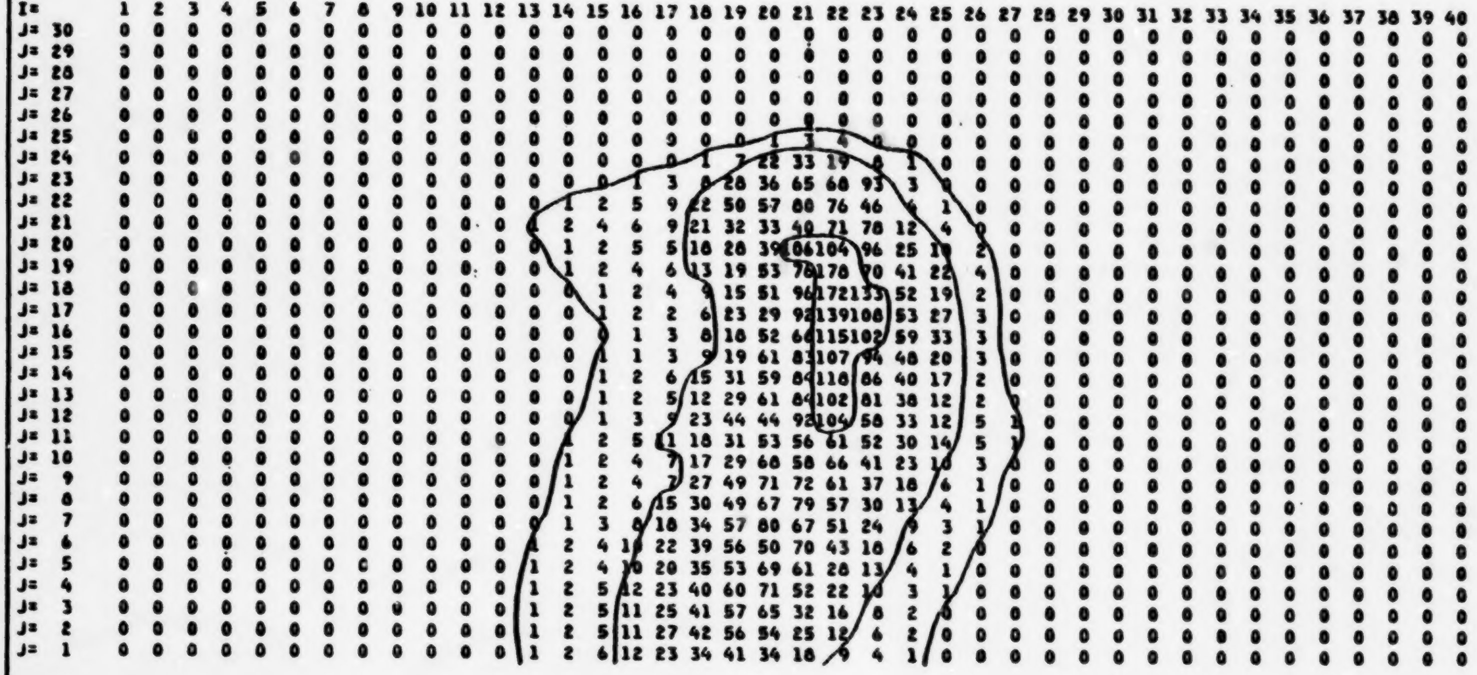
```
HOUR-AVERAGED CONCENTRATION AT TIME   1 HOURS AFTER START OF SIMULATION
=========================================================

                                                              0700 - 0800 PST
SURFACE PRINT OF TRACER  UG/M**3                              15 FEB. 1980
----------------------------------

MULTIPLIER= 1.00000E-03

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 19 50  5  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  4  4 18  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  4  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  6 17 13 14 46  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  6 29163247422165 25  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 19 39224729836139 50  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 18     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 14 30240657785122 39  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 17     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2 13 30511614328 46 22  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 16     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 56116295331125 14  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 17 19 67180 82 12  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 17 92 47  8  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  7 18  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D3-2b



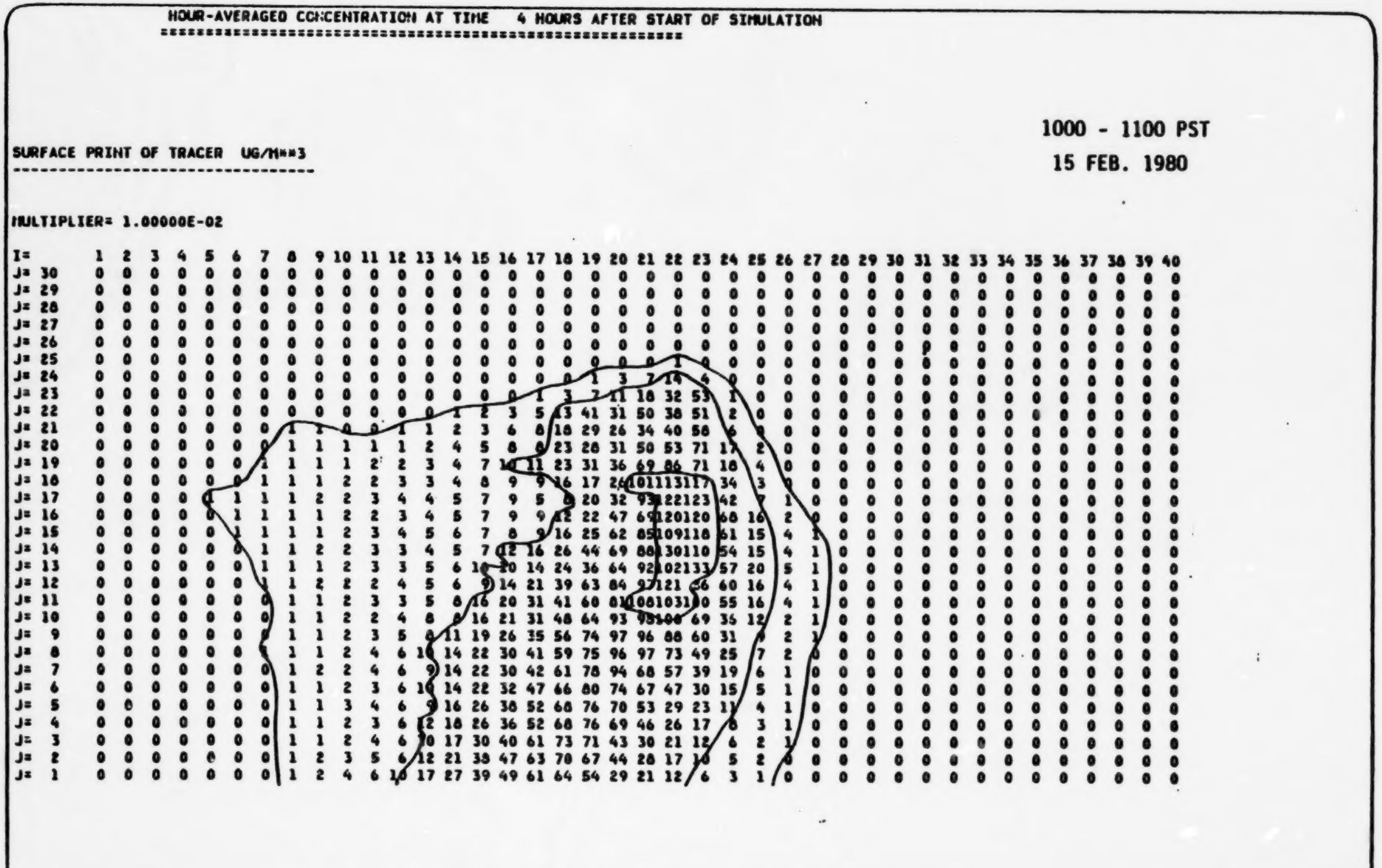
```
            HOUR-AVERAGED CONCENTRATION AT TIME    2 HOURS AFTER START OF SIMULATION
            =========================================================



                                                                                      0800 - 0900 PST
SURFACE PRINT OF TRACER  UG/M**3                                                       15 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 22  6  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  6 14  8  8  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  7 11  7 15  5  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  7 15 27 30 43 18  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  7 52 93 94 85 45  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2 12 18 73155 77 71 68  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 18    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  7 11 80156122 44 38  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 17    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  8104117123 61 28 35  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 16    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3 15 57131 93 43 17 18  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  8 22 51 98 44 24  8  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  8 27116 58 42  7  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4 16 20 37 64 35  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 18 36 30 33 25 11  2  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  7  5  6 27 15 11  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  6 27 17 27 11  3  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  5 12 23 47 30  9  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4 11 21 41 26  6  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4 10 21 16 20  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  5 10  6 14 14  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  5 10 21 12  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  6 12 20 11  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  5  7  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D3-2c



```
               HOUR-AVERAGED CONCENTRATION AT TIME    3 HOURS AFTER START OF SIMULATION
               ==================================================

                                                                                      0900 - 1000 PST
                                                                                      15 FEB. 1980
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=       1   2   3   4   5   6   7   8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35  36  37  38  39  40
J= 30    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 29    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 28    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 27    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 26    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 25    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 24    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   7  22  33  19   8   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 23    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8  28  36  65  68  93   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 22    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   9  22  50  57  80  76  46   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 21    0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   6   9  21  32  33  40  71  78  12   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 20    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5   5  18  28  39 106 104  96  25  10   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 19    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   6  13  19  53  78 178  70  41  22   4   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 18    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   9  15  51  96 172 133  52  19   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 17    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   2   6  23  29  92 139 108  53  27   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 16    0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8  18  52  66 115 102  59  33   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 15    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   1   3   9  19  61  83 107  94  48  20   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 14    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   6  15  31  59  84 118  86  40  17   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 13    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  12  29  61  84 102  81  38  12   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 12    0   0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   9  23  44  44  92 104  58  33  12   5   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 11    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  11  18  31  53  56  61  52  30  14   5   1   0   0   0   0   0   0   0   0   0   0   0   0   0
J= 10    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   7  17  29  68  58  66  41  23  10   3   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  9    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   4   7  27  49  71  72  61  37  18   6   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  8    0   0   0   0   0   0   0   0   0   0   0   0   0   1   2   6  15  30  49  67  79  57  30  13   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  7    0   0   0   0   0   0   0   0   0   0   0   0   0   1   3   8  18  34  57  80  67  51  24   9   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  6    0   0   0   0   0   0   0   0   0   0   0   0   1   2   4  10  22  39  56  50  70  43  18   6   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  5    0   0   0   0   0   0   0   0   0   0   0   0   1   2   4  10  20  35  53  69  61  28  13   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  4    0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  12  23  40  60  71  52  22  10   3   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  3    0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  11  25  41  57  65  32  16   8   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  2    0   0   0   0   0   0   0   0   0   0   0   0   1   2   5  11  27  42  56  54  25  12   6   2   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
J=  1    0   0   0   0   0   0   0   0   0   0   0   0   1   2   6  12  23  34  41  34  18   9   4   1   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0   0
```

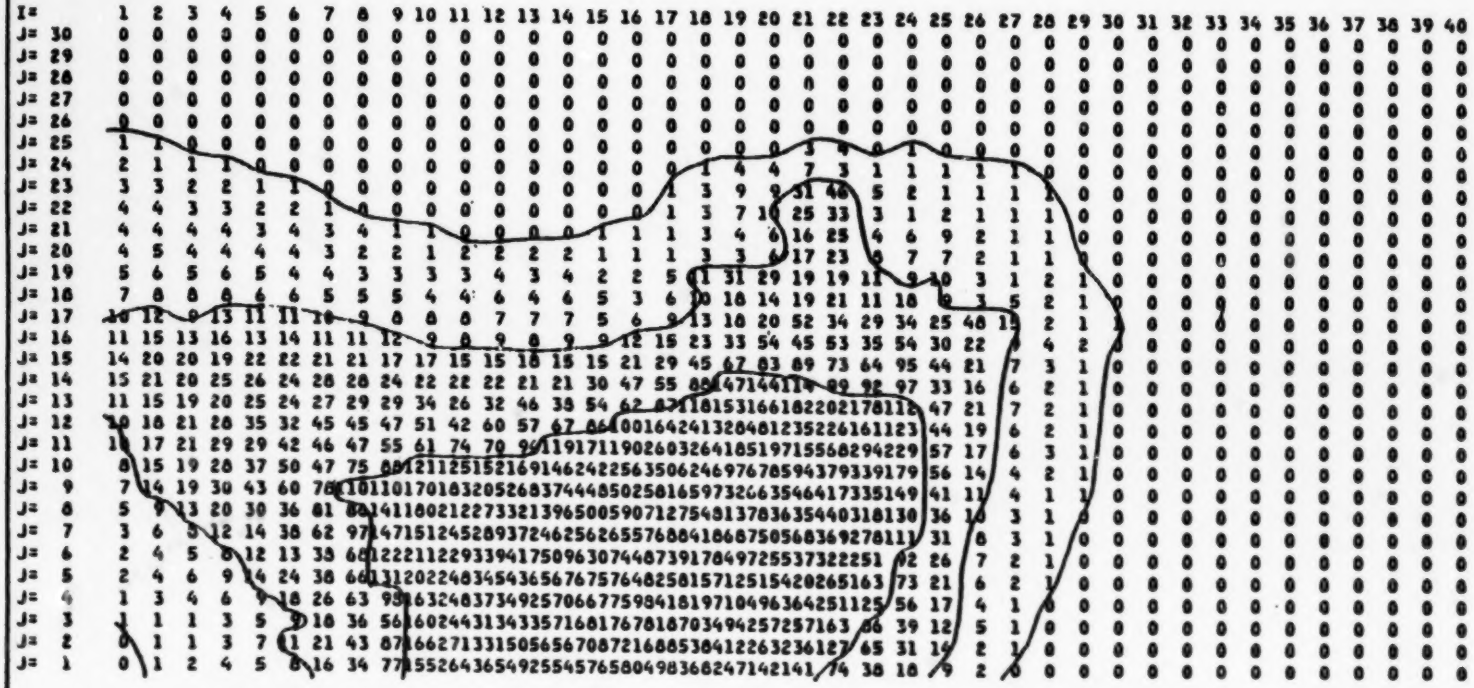
FIGURE D3-2d



```
          HOUR-AVERAGED CONCENTRATION AT TIME    4 HOURS AFTER START OF SIMULATION
          ======================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-02

I=      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  7 14  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23   0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  3  7 11 18 32 53  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22   0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  3  5 13 41 31 50 38 51  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21   0  0  0  0  0  0  0  1  1  0  0  1  1  2  3  6  8 18 29 26 34 40 58  6  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20   0  0  0  0  0  0  0  1  1  1  1  1  2  4  5  8  8 23 28 31 50 53 71 17  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19   0  0  0  0  0  0  1  1  1  1  2  2  3  4  7 10 11 23 31 36 69 86 71 18  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 18   0  0  0  0  0  0  1  1  1  2  2  3  3  4  8  9  9 16 17 26101113117 34  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 17   0  0  0  0  0  1  1  1  2  2  3  4  4  5  7  9  5  8 20 32 93122123 42  7  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 16   0  0  0  0  0  1  1  1  1  2  2  3  4  5  7  9  9 12 22 47 69120120 68 16  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15   0  0  0  0  0  1  1  1  1  2  3  4  5  6  7  8  9 16 25 62 85109118 61 15  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14   0  0  0  0  0  0  1  1  2  2  3  3  4  5  7 12 16 26 44 69 88130110 54 15  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13   0  0  0  0  0  0  1  1  1  2  3  3  5  6 10 10 14 24 36 64 92102133 57 20  5  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12   0  0  0  0  0  0  1  1  2  2  2  4  5  6  9 14 21 39 63 84 97121 96 60 16  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11   0  0  0  0  0  0  0  1  1  2  3  3  5  8 16 20 31 41 60 81108103100 55 16  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10   0  0  0  0  0  0  0  1  1  2  2  4  8  8 16 21 31 48 64 93 98100 69 35 12  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9   0  0  0  0  0  0  0  1  1  2  3  5  8 11 19 26 35 56 74 97 96 88 60 31  9  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8   0  0  0  0  0  0  0  1  1  2  4  6 10 14 22 30 41 59 75 96 97 73 49 25  7  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7   0  0  0  0  0  0  0  1  2  2  4  6  9 14 22 30 42 61 78 94 68 57 39 19  6  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6   0  0  0  0  0  0  0  1  1  2  3  6 10 14 22 32 47 66 80 74 67 47 30 15  5  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5   0  0  0  0  0  0  0  1  1  3  4  6  9 16 26 38 52 68 76 70 53 29 23 11  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4   0  0  0  0  0  0  0  1  1  2  3  6 12 18 26 36 52 68 76 69 46 26 17  8  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3   0  0  0  0  0  0  0  1  1  2  4  6 10 17 30 40 61 73 71 43 30 21 12  6  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2   0  0  0  0  0  0  0  1  2  3  5  6 12 21 38 47 63 70 67 44 28 17 10  5  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1   0  0  0  0  0  0  0  1  2  4  6 10 17 27 39 49 61 64 54 29 21 12  6  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

1000 - 1100 PST
15 FEB. 1980

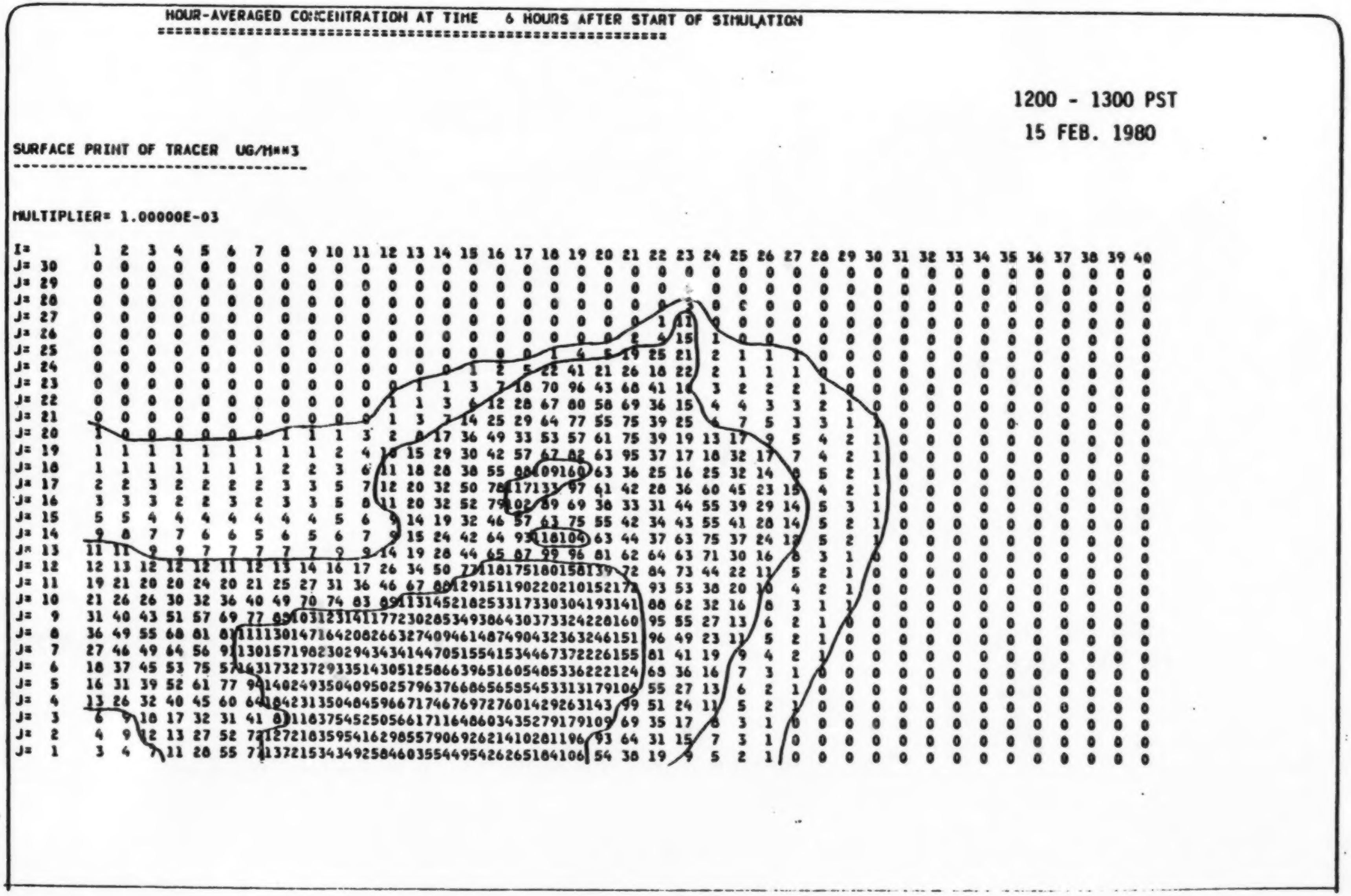
FIGURE D3-2e



```
            HOUR-AVERAGED CONCENTRATION AT TIME   5 HOURS AFTER START OF SIMULATION
            ==========================================================

SURFACE PRINT OF TRACER  UG/M**3
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25     1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  4  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24     2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  4  7  3  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23     3  3  2  2  1  1  0  0  0  0  0  0  0  0  0  0  1  3  9  9 31 46  5  2  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 22     4  4  3  3  2  2  1  0  0  0  0  0  0  0  0  0  1  3  7 10 25 33  3  1  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 21     4  4  4  4  3  4  3  4  1  1  0  0  0  0  1  1  1  3  4  6 16 25  4  6  9  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 20     4  5  4  4  4  4  3  2  2  1  2  2  2  2  1  1  1  3  3  6 17 23  5  7  7  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 19     5  6  5  6  5  4  4  3  3  3  3  4  3  4  2  2  5 11 31 29 19 19 11  9 10  3  1  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 18     7  8  8  8  6  6  5  5  5  4  4  6  4  6  5  3  6 10 18 14 19 21 11 18  9  3  5  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 17    10 12  9 13 11 11 10  9  8  8  8  7  7  7  5  6  9 13 18 20 52 34 29 34 25 48 15  2  1  1  0  0  0  0  0  0  0  0  0  0
J= 16    11 15 13 16 13 14 11 11 12  9  8  9  8  9  9 12 15 23 33 54 45 53 35 54 30 22  8  4  2  0  0  0  0  0  0  0  0  0  0  0
J= 15    14 20 20 19 22 22 21 21 17 17 15 15 18 15 15 21 29 45 67 83 89 73 64 95 44 21  7  3  1  0  0  0  0  0  0  0  0  0  0  0
J= 14    15 21 20 25 26 24 28 28 24 22 22 22 21 21 30 47 55 88147144114 99 92 97 33 16  6  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 13    11 15 19 20 25 24 27 29 29 34 26 32 46 38 54 62 87118153166182202178112 47 21  7  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 12    10 18 21 28 35 32 45 45 47 51 42 60 57 67 86100164241320481235226161123 44 19  6  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 11    10 17 21 29 29 42 46 47 55 61 74 70 96119171190260326418519715568294229 57 17  6  3  1  0  0  0  0  0  0  0  0  0  0  0
J= 10     8 15 19 28 37 50 47 75 88121125152169146242256350624697678594379339179 56 14  4  2  1  0  0  0  0  0  0  0  0  0  0  0
J=  9     7 14 19 30 43 60 78101110170183205268374448502581659732663546417335149 41 11  4  1  1  0  0  0  0  0  0  0  0  0  0  0
J=  8     5  9 13 20 30 36 81 88141180212273321396500590712754813783635440318130 36 10  3  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  7     3  6  5 12 14 38 62 97147151245289372462562655768841868750568369278111 31  8  3  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  6     2  4  5  8 12 13 39 68122211229339417509630744873917849725537322251 92 26  7  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  5     2  4  6  9 14 24 38 66131202248345436567675764825815712515420265163 73 21  6  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  4     1  3  4  6  9 18 26 63 95163248373492570667759841819710496364251125 56 17  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3     1  1  1  3  5  9 18 36 56160244313433571681767818703494257257163 86 39 12  5  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2     0  1  1  3  7 11 21 43 87166271331505656708721688538412263236127 65 31 14  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1     0  1  2  4  5  8 16 34 77155264365492554576580498368247142141 74 38 18  9  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

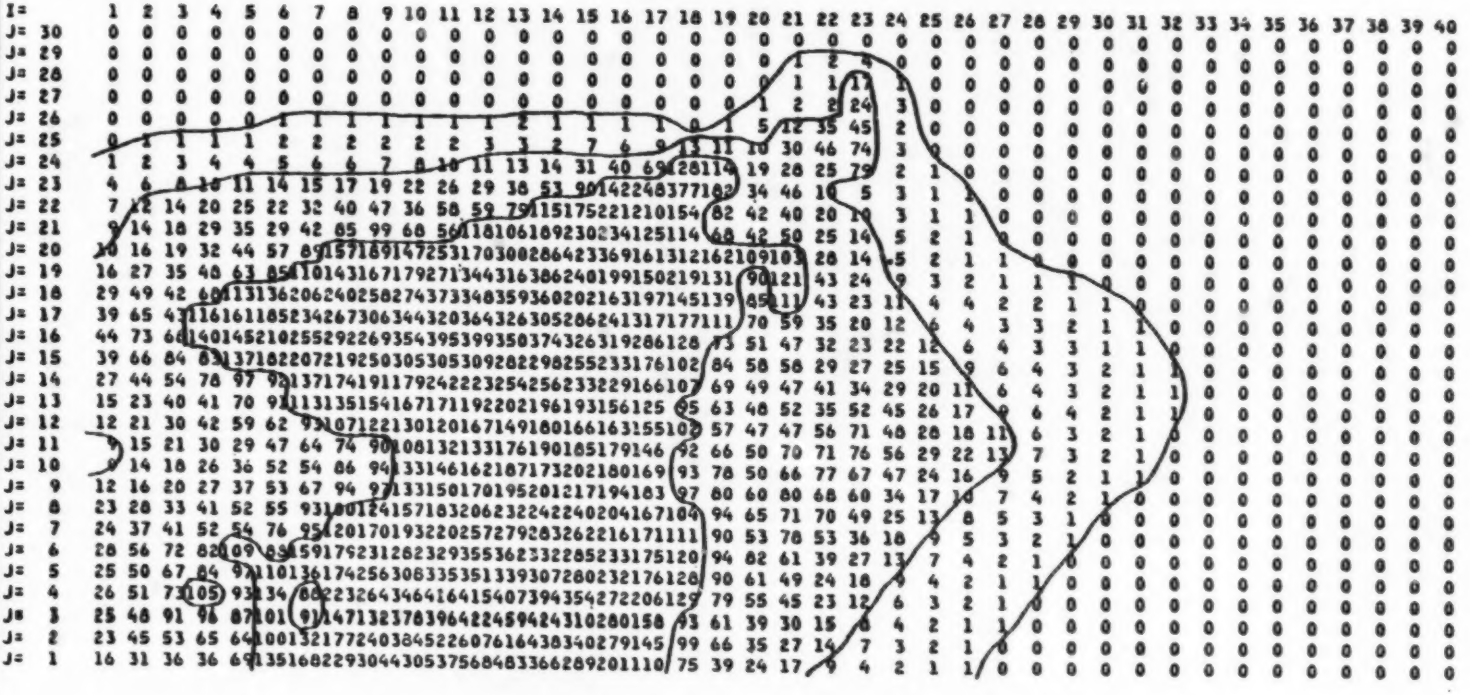
1100 - 1200 PST
15 FEB. 1980

FIGURE D3-2f



```
           HOUR-AVERAGED CONCENTRATION AT TIME   6 HOURS AFTER START OF SIMULATION
          =====================================================================

                                                                               1200 - 1300 PST
                                                                                15 FEB. 1980
SURFACE PRINT OF TRACER  UG/M**3
--------------------------------------

MULTIPLIER= 1.00000E-03

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0[illegible]  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  3  0  C  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1 11  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  2  4 15  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  4  5 19 25 21  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24     0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  5 22 41 21 26 18 22  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23     0  0  0  0  0  0  0  0  0  0  0  0  1  1  3  7 18 70 96 43 68 41 16  3  2  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J= 22     0  0  0  0  0  0  0  0  0  0  0  1  1  3  6 12 28 67 80 58 69 36 15  4  4  3  3  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 21     0  0  0  0  0  0  0  0  0  0  0  1  3  7 14 25 29 64 77 55 75 39 25  4  7  5  3  3  1  1  0  0  0  0  0  0  0  0  0  0
J= 20     1  0  0  0  0  0  0  1  1  1  3  2  8 17 36 49 33 53 57 61 75 39 19 13 17  9  5  4  2  1  0  0  0  0  0  0  0  0  0  0
J= 19     1  1  1  1  1  1  1  1  1  2  4 10 15 29 30 42 57 67 82 63 95 37 17 18 32 17  7  4  2  1  0  0  0  0  0  0  0  0  0  0
J= 18     1  1  1  1  1  1  1  2  2  3  6 11 18 28 38 55 88109160 63 36 25 16 25 32 14  8  5  2  1  0  0  0  0  0  0  0  0  0  0
J= 17     2  2  3  2  2  2  2  3  3  5  7 12 20 32 50 78117133 97 61 42 28 36 60 45 23 15  4  2  1  0  0  0  0  0  0  0  0  0  0
J= 16     3  3  3  2  2  3  2  3  3  5  8 11 20 32 52 79102 89 69 38 33 31 44 55 39 29 14  5  3  1  0  0  0  0  0  0  0  0  0  0
J= 15     5  5  4  4  4  4  4  4  4  5  6  9 14 19 32 46 57 63 75 55 42 34 43 55 41 28 14  5  2  1  0  0  0  0  0  0  0  0  0  0
J= 14     9  8  7  7  6  6  5  6  5  6  7  9 15 24 42 64 93118104 63 44 37 63 75 37 24 12  5  2  1  0  0  0  0  0  0  0  0  0  0
J= 13    11 11  9  9  7  7  7  7  7  9  9 14 19 28 44 65 87 99 96 81 62 64 63 71 30 16  8  3  1  0  0  0  0  0  0  0  0  0  0  0
J= 12    12 13 12 12 12 11 12 13 14 16 17 26 34 50 77118175180158139 72 84 73 44 22 11  5  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 11    19 21 20 20 24 20 21 25 27 31 36 46 67 88129151190220210152172 93 53 38 20 10  4  2  1  0  0  0  0  0  0  0  0  0  0  0
J= 10    21 26 26 30 32 36 40 49 70 74 83 89113145218253317330304193141 88 62 32 16  8  3  1  1  0  0  0  0  0  0  0  0  0  0  0
J=  9    31 40 43 51 57 69 77 89103123141177230285349386430373324228160 95 55 27 13  6  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  8    36 49 55 68 81 87111130147164208266327409461487490432363246151 96 49 23 11  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  7    27 46 49 64 56 91130157198230294343414470515541534467372226155 81 41 19  9  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  6    18 37 45 53 75 57143173237293351430512586639651605485336222124 69 36 16  7  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    16 31 39 52 61 77 94140249350409502579637668656595453313179106 55 27 13  6  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    13 26 32 40 45 60 64184231350484596671746769727601429263143 99 51 24 11  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3     6  9 18 17 32 31 41 81118375452505661711648603435279179109 69 35 17  8  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2     4  9 12 13 27 52 72127218359541629855790692621410281196 93 64 31 15  7  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1     3  4  7 11 28 55 74137215343492584603554495426265184106 54 38 19  9  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

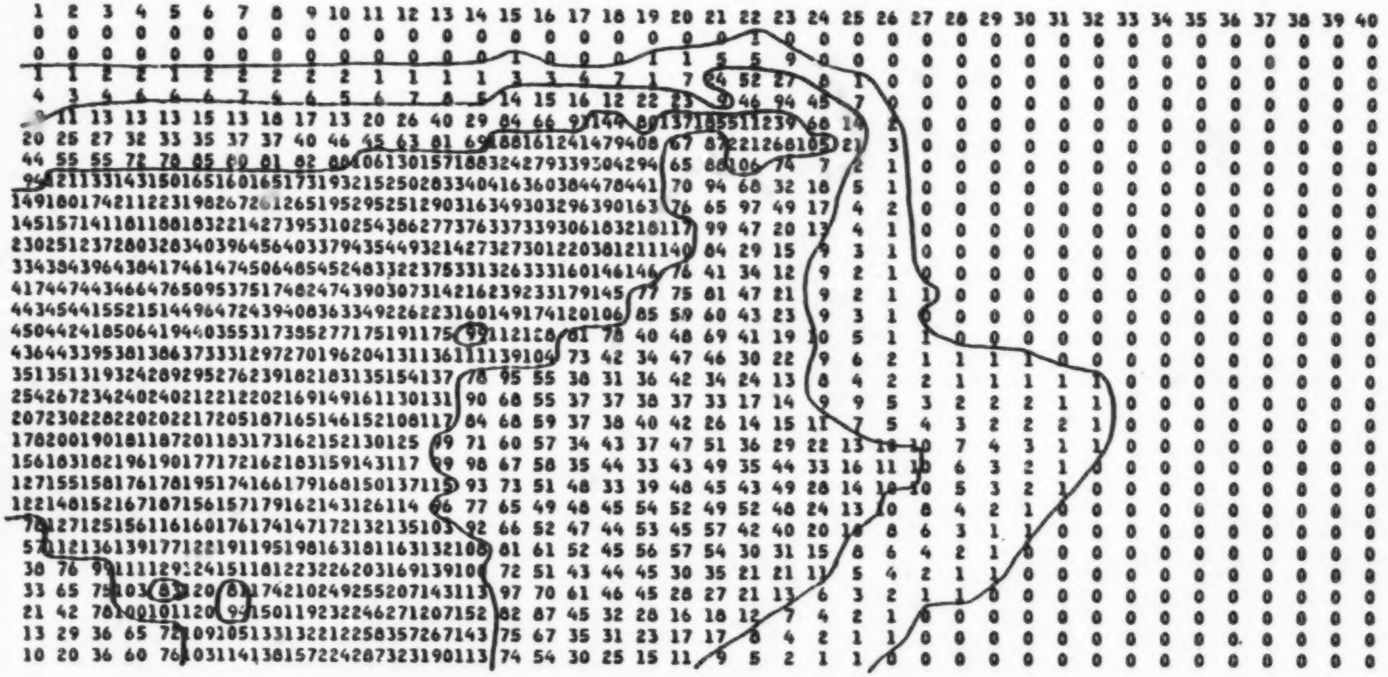
FIGURE D3-2g



```
HOUR-AVERAGED CONCENTRATION AT TIME    7 HOURS AFTER START OF SIMULATION
=================================================================

                                                                        1300 - 1400 PST
SURFACE PRINT OF TRACER  UG/M**3                                        15 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-03

I=        1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  4  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1 17  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27     0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  2  2 24  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26     0  0  0  0  0  1  1  1  1  1  1  1  2  1  1  1  1  0  1  5 12 35 45  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25     0  1  1  1  1  2  2  2  2  2  2  3  3  2  7  6  9 13 11 10 30 46 74  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24     1  2  3  4  4  5  6  6  7  8 10 11 13 14 31 40 69128114 19 28 25 79  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23     4  6  8 10 11 14 15 17 19 22 26 29 38 53 90142248377182 34 46 10  5  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22     7 12 14 20 25 22 32 40 47 36 58 59 79115175221210154 82 42 40 20 10  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21     9 14 18 29 35 29 42 85 99 68 56118106189230234125114 68 42 50 25 14  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20    10 16 19 32 44 57 89157189147253170300286423369161312162109103 28 14  5  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19    16 27 35 48 63 85101143167179271344316386240199150219131 90121 43 24  9  3  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0
J= 18    29 49 42 60113136206240258274373348359360202163197145139 85111 43 23 11  4  4  2  2  1  1  0  0  0  0  0  0  0  0  0  0
J= 17    39 65 43116161185234267306344320364326305286241317177111 70 59 35 20 12  6  4  3  3  2  1  1  0  0  0  0  0  0  0  0  0
J= 16    44 73 66140145210255292269354395399350374326319286128 73 51 47 32 23 22 12  6  4  3  3  1  1  0  0  0  0  0  0  0  0  0
J= 15    39 66 84 83137182207219250305305309282298255233176102 84 58 58 29 27 25 15  9  6  4  3  2  1  1  0  0  0  0  0  0  0  0
J= 14    27 44 54 78 97 92137174191179242223254256233229166107 69 49 47 41 34 29 20 11  6  4  3  2  1  1  0  0  0  0  0  0  0  0
J= 13    15 23 40 41 70 91113135154167171192202196193156125 95 63 48 52 35 52 45 26 17  9  6  4  2  1  1  0  0  0  0  0  0  0  0
J= 12    12 21 30 42 59 62 93107122130120167149180166163155102 57 47 47 56 71 48 28 18 11  6  3  2  1  0  0  0  0  0  0  0  0  0
J= 11     9 15 21 30 29 47 64 74 90108132133176190185179146 92 66 50 70 71 76 56 29 22 13  7  3  2  1  0  0  0  0  0  0  0  0  0
J= 10     9 14 18 26 36 52 54 86 94133146162187173202180169 93 78 50 66 77 67 47 24 16  9  5  2  1  1  0  0  0  0  0  0  0  0  0
J=  9    12 16 20 27 37 53 67 94 97133150170195201217194183 97 80 60 80 68 60 34 17 10  7  4  2  1  0  0  0  0  0  0  0  0  0  0
J=  8    23 28 33 41 52 55 93100124157183206232242240204167104 94 65 71 70 49 25 13  8  5  3  1  0  0  0  0  0  0  0  0  0  0  0
J=  7    24 37 41 52 54 76 95120170193220257279283262216171111 90 53 78 53 36 18  9  5  3  2  1  0  0  0  0  0  0  0  0  0  0  0
J=  6    28 56 72 82109 83159179231262329355362332285233175120 94 82 61 39 27 13  7  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  5    25 50 67 84 97110136174256308335351339307280232176128 90 61 49 24 18  9  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  4    26 51 73105 93134 88223264346416415407394354272206129 79 55 45 23 12  6  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3    25 48 91 96 87101 91147132378396422459424310280158 93 61 39 30 15  8  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2    23 45 53 65 64100132177240384522607616438340279145 99 66 35 27 14  7  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1    16 31 36 36 69135168229304430537568483366289201110 75 39 24 17  9  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

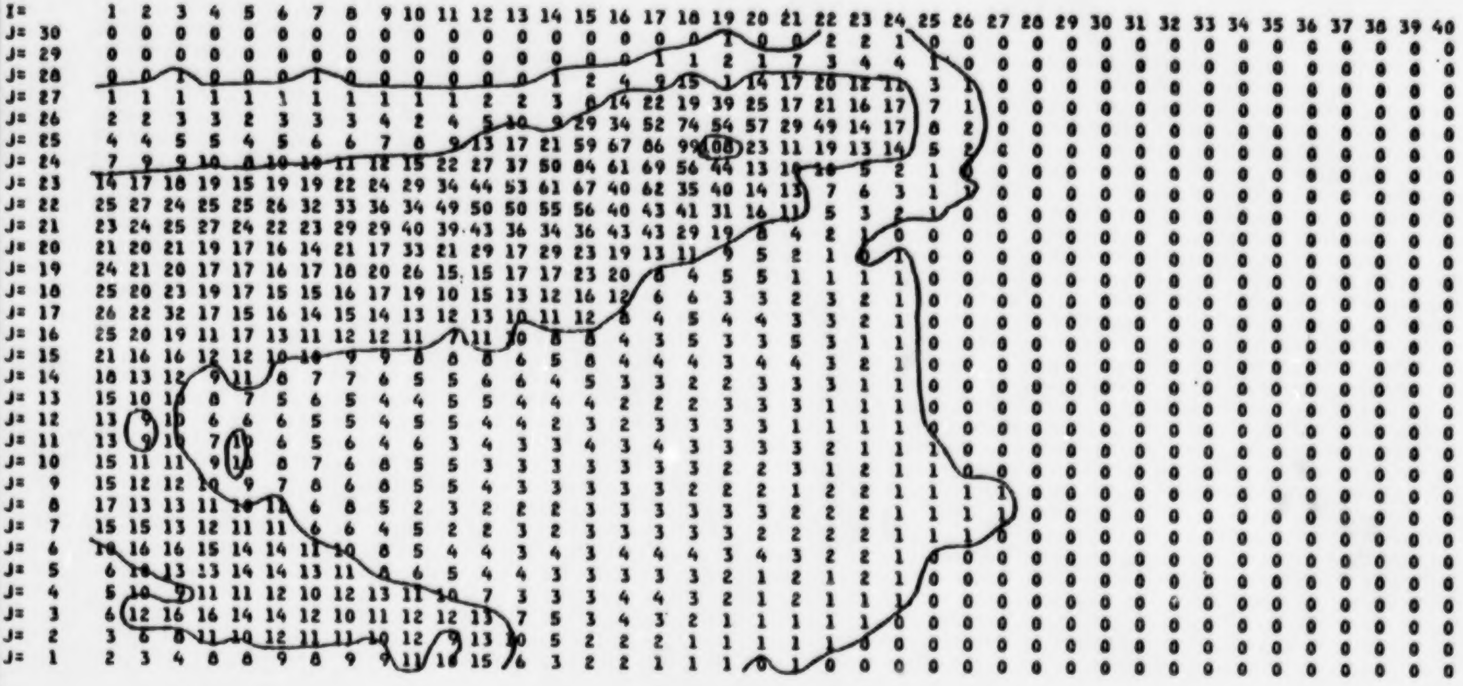
FIGURE D3-2g

1400 - 1500 PST
15 FEB. 1980



```
              HOUR-AVERAGED CONCENTRATION AT TIME    8 HOURS AFTER START OF SIMULATION
              ===========================================================


SURFACE PRINT OF TRACER  UG/M**3
----------------------------------


MULTIPLIER= 1.00000E-03

I=       1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30    0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29    0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  0  1  1  5  5  9  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28    1  1  2  2  1  2  2  2  2  2  1  1  1  1  3  3  4  7  1  7 24 52 27  8  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27    4  3  4  6  6  6  7  4  6  5  6  7  8  5 14 15 16 12 22 23  9 46 94 45  7  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26    9 11 13 13 13 15 13 18 17 13 20 26 40 29 84 66 97144 80137185511239 68 14  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25   20 25 27 32 33 35 37 37 40 46 45 63 81 69188161241479408 67 87221268105 21  3  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24   44 55 55 72 78 85 80 81 82 88106130157188324279339304294 65 88106 74  7  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23   94121133143150165160165173193215250283340416360384478441 70 94 68 32 18  5  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22  149180174211223198267261265195295251290316349303296390163 76 65 97 49 17  4  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21  145157141181180183221427395310254386277376337339306183218117 99 47 20 13  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20  230251237280328340396456403379435449321427327301220381211140 84 29 15  9  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19  334394396438417461474506485452483322375331326333160146146 76 41 34 12  9  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 18  417447443466476509537517482474390307314216239233179145 77 75 81 47 21  9  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 17  443454415521514496472439408363349226223160149174120106 85 59 60 43 23  9  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 16  450442418506419440355317395277175191175 99112128 81 78 40 48 69 41 19 10  5  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15  436443395381386373331297270196204131136111139104 73 42 34 47 46 30 22  9  6  2  1  1  1  1  0  0  0  0  0  0  0  0  0  0
J= 14  351351319324289295276239182183135154137 78 95 55 38 31 36 42 34 24 13  8  4  2  2  1  1  1  1  1  0  0  0  0  0  0  0  0
J= 13  254267234240240212212202169149161130131 90 68 55 37 37 38 37 33 17 14  9  9  5  3  2  2  2  1  1  0  0  0  0  0  0  0  0
J= 12  207230228220202217205187165146152108117 84 68 59 37 38 40 42 26 14 15 11  7  5  4  3  2  2  2  1  0  0  0  0  0  0  0  0
J= 11  178200190181187201183173162152130125 99 71 60 57 34 43 37 47 51 36 29 22 13 10 10  7  4  3  1  1  0  0  0  0  0  0  0  0
J= 10  156183182196190177172162183159143117 99 98 67 58 35 44 33 43 49 35 44 33 16 11 10  6  3  2  1  0  0  0  0  0  0  0  0  0
J=  9  127155158176178195174166179168150137115 93 73 51 48 33 39 48 45 43 49 28 14 10 10  5  3  2  1  0  0  0  0  0  0  0  0  0
J=  8  122140152167187156157179162143126114 96 77 65 49 48 45 54 52 49 52 48 24 13 10  8  4  2  1  0  0  0  0  0  0  0  0  0  0
J=  7   78127125156116160176174147172132135103 92 66 52 47 44 53 45 57 42 40 20 10  8  6  3  1  1  0  0  0  0  0  0  0  0  0  0
J=  6   57112136139177122191195198163181163132108 81 61 52 45 56 57 54 30 31 15  8  6  4  2  1  0  0  0  0  0  0  0  0  0  0  0
J=  5   30 76 99111129124151181223226203169139100 72 51 43 44 45 30 35 21 21 11  5  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0
J=  4   33 65 75103 83120 81174210249255207143113 97 70 61 46 45 28 27 21 13  6  3  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0
J=  3   21 42 78100101120 94150119232246271207152 82 87 45 32 28 16 18 12  7  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2   13 29 36 65 72109105133132212258357267143 75 67 35 31 23 17 17  8  4  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1   10 20 36 60 76103114138157224287323190113 74 54 30 25 15 11  9  5  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

FIGURE D3-2h



```
          HOUR-AVERAGED CONCENTRATION AT TIME    9 HOURS AFTER START OF SIMULATION
          ==========================================================

                                                                        1500 - 1600 PST
SURFACE PRINT OF TRACER  UG/M**3                                        15 FEB. 1980
--------------------------------

MULTIPLIER= 1.00000E-02

I=         1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40
J= 30      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  0  0  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 29      0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  1  1  2  1  7  3  4  4  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 28      0  0  1  0  0  0  1  0  0  0  0  0  0  1  2  4  9 15  1 14 17 20 12 11  3  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 27      1  1  1  1  1  1  1  1  1  1  1  2  2  3  8 14 22 19 39 25 17 21 16 17  7  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 26      2  2  3  3  2  3  3  3  4  2  4  5 10  9 29 34 52 74 54 57 29 49 14 17  8  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 25      4  4  5  5  4  5  6  6  7  8  9 13 17 21 59 67 86 99108 23 11 19 13 14  5  2  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 24      7  9  9 10  8 10 10 11 12 15 22 27 37 50 84 61 69 56 44 13 10 10  5  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 23     14 17 18 19 15 19 19 22 24 29 34 44 53 61 67 40 62 35 40 14 13  7  6  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 22     25 27 24 25 25 26 32 33 36 34 49 50 50 55 56 40 43 41 31 16 11  5  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 21     23 24 25 27 24 22 23 29 29 40 39 43 36 34 36 43 43 29 19  8  4  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 20     21 20 21 19 17 16 14 21 17 33 21 29 17 29 23 19 13 11  9  5  2  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 19     24 21 20 17 17 16 17 18 20 26 15 15 17 17 23 20  8  4  5  5  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 18     25 20 23 19 17 15 15 16 17 19 10 15 13 12 16 12  6  6  3  3  2  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 17     26 22 32 17 15 16 14 15 14 13 12 13 10 11 12  8  4  5  4  4  3  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 16     25 20 19 11 17 13 11 12 12 11  7 11 10  8  8  4  3  5  3  3  5  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 15     21 16 16 12 12 10 10  9  9  8  8  8  6  5  8  4  4  4  3  4  4  3  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 14     18 13 12  9 11  8  7  7  6  5  5  6  6  4  5  3  3  2  2  3  3  3  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 13     15 10 10  8  7  5  6  5  4  4  5  5  4  4  4  2  2  2  3  3  3  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 12     13  9 10  6  6  6  5  5  4  5  5  4  4  2  3  2  3  3  3  3  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 11     13  9 10  7 10  6  5  6  4  6  3  4  3  3  4  3  4  3  3  3  3  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J= 10     15 11 11  9 10  8  7  6  8  5  5  3  3  3  3  3  3  3  2  2  3  1  2  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  9     15 12 12 10  9  7  8  6  8  5  5  4  3  3  3  3  3  2  2  2  1  2  2  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  8     17 13 13 11 10 11  6  8  5  2  3  2  2  2  3  3  3  3  3  3  2  2  2  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  7     15 15 13 12 11 11  6  6  4  5  2  2  3  2  3  3  3  3  3  2  2  2  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  6     10 16 16 15 14 14 11 10  8  5  4  4  3  4  3  4  4  4  3  4  3  2  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  5      6 10 13 13 14 14 13 11  8  6  5  4  4  3  3  3  3  3  2  1  2  1  2  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  4      5 10  9 11 11 12 10 12 13 11 10  7  3  3  3  4  4  3  2  1  2  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  3      6 12 16 16 14 14 12 10 11 12 12 13  7  5  3  4  3  2  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  2      3  6  8 11 10 12 11 11 10 12  9 13 10  5  2  2  2  1  1  1  1  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
J=  1      2  3  4  8  8  9  8  9  9 11 16 15  6  3  2  2  1  1  1  0  1  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
```

TABLE D3-1

MAXIMUM MODELLED HOURLY IMPACTS - 15 FEBRUARY 1980

Hour No.	Time PST	Grid Location	SF_6 *[1] µg/m³	Predicted*[2] NO_x µg/m³ @ 600 MW Load
1	0700-0800	I23, J19	0.836	53
2	0800-0900	I22, J18	1.560	98
3	0900-1000	I22, J19	1.780	110
4	1000-1100	I23, J13	1.330	84
5	1100-1200	I18, J6	0.917	58
6	1200-1300	I13, J2	0.855	54
7	1300-1400	I13, J2	0.616	39
8	1400-1500	I7, J18	0.537	34
9	1500-1600	I19, J25	1.080	68

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*[1] SF_6 concentration µg/m³ at ambient temperature of 3°C.

*[2] NO_x concentration µg/m³ at 25°C and 760 mm Hg. Assumed NO_x/SF_6 ratio of 68.1.

POOR

QUALITY

ORIGINAL